Oil, Paint and Drug Reporter

THE CHEMICAL MARKET AUTHORITY

October 3, 1960

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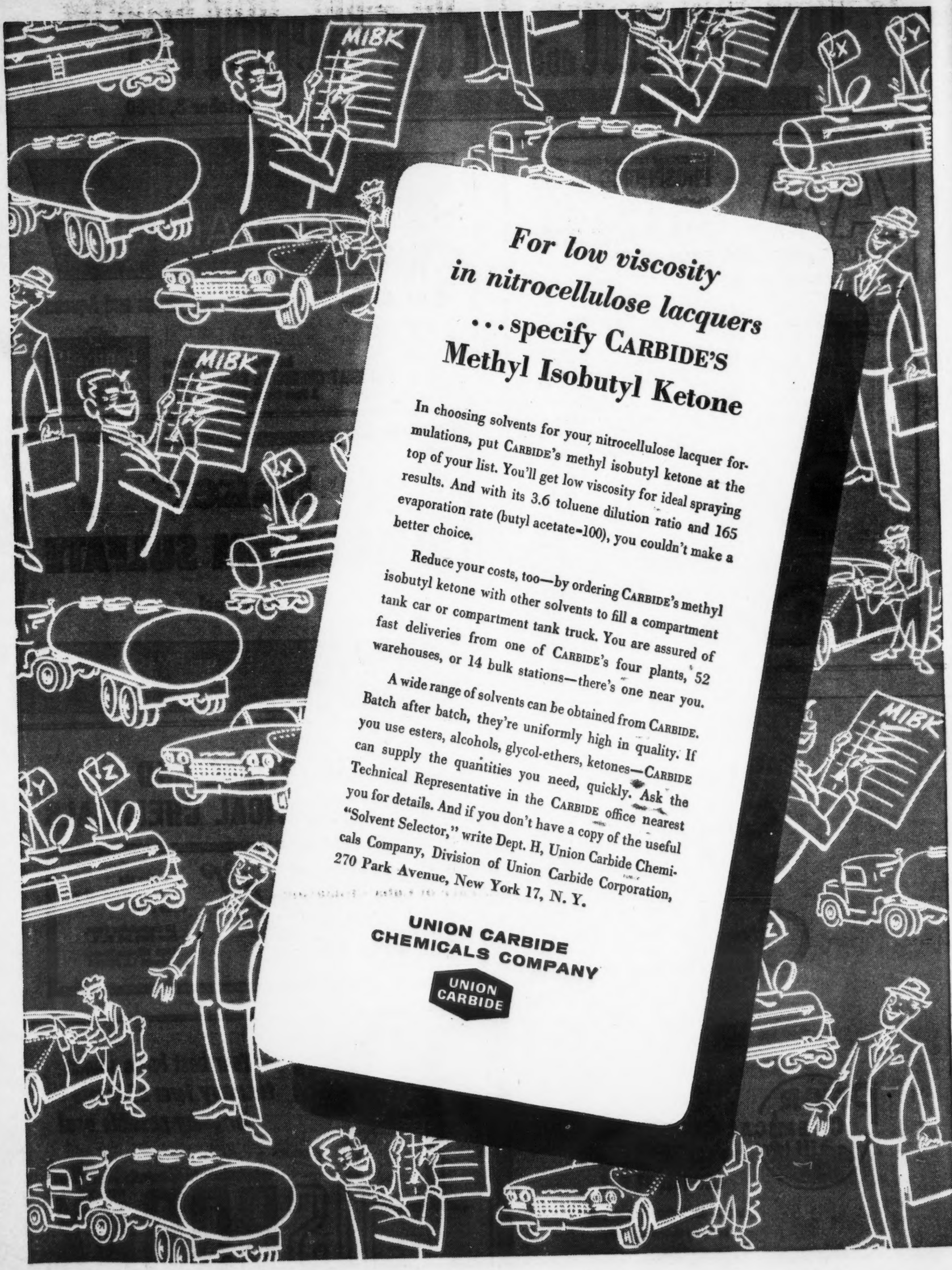
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Oil, Paint and Drug Reporter

Vol. 178 No. 15 30 Church St., New York 7, N. Y. October 3, 1960

Additives Must Be 'Hot'

Chemical additives must be really "hot" today or they will get short shrift from food manufacturers. Because of the mountain of red tape involved in additives clearance, materials are being dropped every day because a company feels the effort "isn't worth it."

This grim climax of troubles arising out of the 1958 additives amendment was described before the Chemical Industry Association in New York last week.

With the March 6 deadline for additives clearance approaching, Dr. Kenneth Morgareidge, assistant director of Food & Drug Research Laboratories, alerted the meeting to the fact that Food & Drug Administration has been able to publish only twenty-seven final food orders since enactment of the amendment.

"Something drastic must happen in the next six months," he said, explaining that it will be completely impossible for industry to submit, or FDA to process, petitions on the full list of compounds which have been given extension privileges to March 6.

Either there must be fast action by the new congress in January, 1961, Dr. Morgareidge warned, or there will be an unimaginable dislocation in the food packaging industry.

"I feel sure it was not the intention of congress to put the food manufacturing people out of business," he said. But congress, unfortunately, ignored two pertinent factors: First, industry's inertia in preparing and filing petitions and, secondly, lack of government manpower and know-how to process them.

Further, it was stated, vague ideas

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Chemical Industry Overseas Has American Accent Smacking of Cash

A foreign chemical industry with an American accent! That has become established fact of the '60s and promises to become even more so in the years ahead. In the brief span of nine years between 1950 and 1959, Americans have been investing almost 9 cents for the manufacture of chemicals and related products in plants rooted in foreign soils against every dollar of investment made in the chemical industry in this country.

PROMOTED: Henry F. Shea, jr., assistant managing director of Monsanto Japan, Ltd., Tokyo, has been appointed managing director of the company, which is a part of the St. Louis, Mo.-based Monsanto complex.

Preliminary estimates of a world-wide survey of United States investments abroad have just been made by the Office of Business Economics of the Department of Commerce, and published in the September issue of the department's "Survey of Current Business."

It's a Sharp Rise

They disclose that American investments in the manufacture of chemicals abroad have swelled from a figure of $512 million in 1950 to $1,667 million last year, with nearly one-fourth of the rise occurring since 1957.

Among all manufacturing enterprises abroad in which Americans have invested their dollars, the chemical manufacturing operations outrank all the rest, topping investments in transportation equipment by $55 million and non-electrical machinery by over $450 million.

If the closely associated rubber and paper products industries are included with chemicals, the total surpasses American investments in mining and smelting of $2,858 million. No single industrial group, however, approaches the American investments in petroleum enterprises, which stood at $10,423 million last year.

The rise in American investments in production of chemicals and related products in Canada has been spectacular over the nine-year period, moving up from $198 million in 1950 to $742 million in 1959.

Two years earlier they stood at $647 million. Europe was also sharing in the general increase in American foreign investments in chemicals during this period, surpassing those of Latin America.

American investments in European chemical manufacture went from $74 mil-

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Miles Citric Acid Unit Scheduled for Israel

Miles Chemical Company, taking advantage of investment incentive offered by the Israeli government, has slated a $2 million citric acid plant in Haifa. The unit, scheduled for completion in late 1961, will have an annual capacity of 1,500 short tons.

The all-Israeli operation will be controlled by Miles Chemicals Israel, Ltd., a new subsidiary of Miles Laboratories, Inc., Elkhart, Ind. Directors will include Walter R. Beardsley, president of the parent company.

Like Miles' $3.6 million citric acid plant in Elkhart, the Israeli facility will utilize the deep fermentation process. Miles

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Acrylic Plant Construction Is Begun by Rohm & Haas

Rohm & Haas Company has started erecting facilities for manufacture of acrylic products at Louisville, Ky., on the site of an old butadiene plant.

The area and buildings were purchased by Rohm & Haas from the government early this year after they had been de-

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Dihydrostreptomycin Panorama: Makers Quit, Gov't Gets Tough; What's Going to Happen Next?

Five big drug firms used to produce dihydrostreptomycin. American Cyanamid Company, discouraged with low prices and over-production, discontinued manufacture about a year ago. And then there were four. Next to halt production was Eli Lilly & Co. The Indianapolis, Ind., firm no longer offers the antibiotic, either singly or in combination, for use in human medicine in the US. However, it continues to supply veterinary markets from existing stocks.

And so there are three: Merck & Co., Rahway, N.J.; Chas. Pfizer & Co., Brooklyn, N. Y., and the E. R. Squibb & Sons Division of Olin Mathieson Chemical Corporation, New York.

Who's Next?

Who's next to go? Some in the trade think it will be the $13 million market itself.

Sounding the death knell, they say, is Food & Drug Administration's proposed change in labeling regulations. These would require manufacturers to give clear warning of the possible impairment of hearing that has been known to follow repeated large doses of the antibiotic.

Before FDA's announcement last week, it was already quite clear that the trend was away from DHS and to streptomycin. Production statistics were one indication. Output of DHS fell to 470,000 pounds in 1959 from 561,000 pounds in 1958, while output of streptomycin rose to 281,000 pounds from 179,000.

A second clue was exports of dosage forms of DHS. These totaled 12,082,999 grams in 1959 against 20,344,755 a year earlier. In contrast, exports of streptomycin went to 56,133,547 grams from 37,946,143.

Viewed in retrospect, the continual decline in prices over the past year, despite successive attempts to stabilize the market at official list, could reflect the gradual switch to streptomycin for use in treating infectious diseases in humans.

This became a definite trend about four months ago, some trade sources say, adding that the primary and almost the only market for DHS today is veterinary medicines.

Although a chicken's inability to hear properly is relatively unimportant, as a trade member facetiously remarked, it is

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UNIT PRESIDENT: Henry L. Ford, elected president of Eastman Chemical Products, Inc., the Kingsport, Tenn., subsidiary of Eastman Kodak Company.

Nicaro Nickel Works Shut In Face of Cuba Ultimatum

The US closed down its $110 million nickel processing plant at Nicaro, Cuba last week in the face of an ultimatum saying that after October 1 no nickel could be shipped out of the country without payment of the 25 percent Cuban mineral export tax.

The decision came after months of on-again-off-again meetings with Cuban representatives, seeking a settlement of the dispute over the plant and the taxes, which the US government holds violates a binding agreement negotiated with the Cuban government when the plant was built ten years ago.

The State Department said that Cuba offered to purchase the plant, but its of-

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Merck Ready to Boost Latin American Stake

Merck & Co. is all set to spend $1,350,000 for tuning up and expanding its Latin American operations. The program, which will be carried out by the Merck Sharp & Dohme International Division, includes construction of a $1 million plant in Mexico City to replace present facilities.

Another $350,000 will go into building a new plant at Lima, Peru to start manufacture of Merck products in that country.

Both projects are expected to get under way immediately with start-up anticipated in late 1961.

With 40,000 square feet of space, the new facility in Mexico City with permit a 40 percent increase in current production capacity, with room for further expansion as demand in Mexico and Central America increases. It will turn out a broad line of pharmaceuticals, including steroids, diuretics and vitamins. In addition, new equipment will be installed to produce sterile products now imported from the US.

Merck products are now produced in

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Wibbling: A New Craze? Monsanto Asks Hopefully

Can the Wibbler do for high-impact polystyrene what the hula hoop did for polyethylene? Asking itself this question hopefully these days is Monsanto Chemical Company, St. Louis, Mo.

The Wibbler looks like a miniature arched bridge with a step on each end to stand on—if you can. The idea is to balance on the Wibbler and then walk, run or dance.

Monsanto supplies its "Lustrex" high-impact polystyrene for this 1960 version of the old-fashioned teeter board. Made by the Wibbler Company of St. Louis, the new balancing toy went on sale at most leading department and chain stores last week at $1.98.

DX Sunray: No. 3 in Petroleum Waxes Field

DX Sunray Oil Company has just become the world's third largest producer of petroleum waxes.

With start-up of a new 100-million-pounds-a-year unit in Tulsa, Okla., Sunray claims it has grabbed a spot in the Big 3 behind Esso Standard Oil Company and Atlantic Refining Company.

Replacing the company's old paraffin unit in Tulsa, the new facility will turn out both paraffin and microcrystalline grades flexibly, depending upon the market and feedstocks.

Expansion of the wax market has been slowed down in recent years by the advent of competitive plastics and increasing success of glass makers to hold the line in the milk container business.

US wax output last year totaled 768,600 tons. About 40 percent went into milk cartons, 28 percent into other paper coatings, and 22 percent into candles. Minor amounts were used in chemicals, rubber, electrical equipment, explosives and miscellaneous fields.

The wax expansion is only one step in Sunray's long range program to modernize and streamline the 85,000-barrel-a-day Tulsa refinery.

Another stage will get under way in January when the company starts construction of a new hydro-dealkylation unit at Tulsa to double its production of benzene. Cost of the unit is estimated at $1 million. Production will average about 600 barrels a day, which, coupled with output from a "Udex" unit now under construction, will give a total benzene output of about 1,200 barrels daily.

Suntide Refining Company also has a "Hydeal" unit under construction at its Corpus Christi, Tex., refinery. DX Sunray and Suntide are both subsidiaries of Sunray Mid-Continent Oil Company.

Chemical Future of Canada Due For Overhaul, Not Tariff Rises

Canadian chemical makers have no plans to ask for a general or even an extensive increase in custom rates on chemicals moving into that country. This reassurance comes from a chemical industry committee which has been formed to make recommendations to Ottawa in connection with Canada's first overhaul of its tariff structure in half a century. The Canadians say they are more interested in eliminating anomalies, inconsistencies and anachronisms in the present system than in pressing for higher duties.

The chemical end of the tariff review got under way last month. Further hearings are slated for November 7 and 21 of this year and January 9 and 23, February 6 and 20 and March 6 of next year.

The Outlook: Hearings Galore

But this isn't the end. As many as thirty-nine hearings may be necessary, Canadian officials say, with the possibility the review will continue through 1961 and even into 1962. The government hopes, however, to find means to shorten it.

In respect to the great majority of chemicals, the industry has asked the Tariff Board that there be no change from existing rates, and in some instances rates lower than those now levied have been suggested. There are reportedly only a few instances in which rate increases are asked and in these cases existing rates are said to give inadequate protection.

A proposed new tariff schedule submitted by the committee included four lists of chemicals and chemical products arranged according to the Brussels Nomenclature System.

The first is composed of 152 categories, locating chemicals according to their chemical nature, such as "alcohols," "ethers," aldehydes," and so on. In virtually all instances the industry asks that there be no change in the tariff rates (15 percent British preferential, 20 percent most favored nation) now applicable to them under tariff item 711, under which a substantial number of chemicals are now classified.

The industry proposes that the 20 percent "Most Favored Nation" rate should apply to all chemicals unless specifically provided for at other rates.

The second list is made up of forty-seven specified exceptions to the category rates of chemicals now produced in Can-

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DuPont Scores Again For Medical Progress

E. I. duPont de Nemours & Co., long a big name in chemicals, is rapidly establishing itself as a big name in the field of industrial medicine.

The Wilmington, Del., company's work on alcoholism is already well known. Now, its medical division's assistant director, Dr. C. A. Alonzo, has just written a book about another problem—heart disease. Much of the information for the book has been drawn from duPont's preventive medical program.

The title of the volume is "Heart Disease, Blood Pressure and Strokes." It is being put out by Gulf Publishing Company, Houston, Tex., at $3 a copy.

Agricultural Potash: Business Rolls Along

It's a prosperous year for the agricultural potash industry, with North American deliveries for the first six months up 14 percent over the comparable period last year. That's the word from American Potash Institute.

Total deliveries to the US, Canada, Cuba, Puerto Rico and Hawaii were 2,415,932 tons of salts containing an equivalent of 1,416,507 tons of K_2O, the institute reports.

Continental United States took 1,319,905 tons K_2O; Canada, 57,289 tons; Cuba, 12,023 tons; Puerto Rico, 16,247 tons; and Hawaii, 11,043 tons K_2O.

These figures include imports of 150,697 tons K_2O for the first six months of the year, an increase of more than 34 percent over last year.

Exports to other countries were 190,351 tons K_2O, an increase of 59 percent. Deliveries of potash for non-agricultural pur-

—Continued on page 35

Para-Chlorothiophenol Off

Stauffer Chemical Company, New York, has reduced the spot price of para-chlorothiophenol from $2 a pound to $1.35 per pound in less than carload lots, and to $1.25 in truckloads or carloads. Contract prices for large volumes now range as low as 65 cents a pound. The chemical intermediate, is packed in fifty-five gallon drums and shipped f.o.b. Henderson, Nev.

GAF Slashes Quotation For PVP/VA Copolymer

A substantial price reduction has been announced by Antara Chemicals, sales division of General Aniline & Film Corporation, New York, for its vinyl-pyrrolidone/vinyl acetate copolymer, "PVP/VA W-464," a 40 percent acqueous emulsion.

Antara describes the product as an emulsifier-free material. The new price schedule starts at 50 cents per pound in tankcars or tanktruck quantities.

Other PVP/VA copolymers are available from Antara in solid form and as 50 percent solution in ethanol as well as in isopropanol for general industrial uses.

The Week's Price Changes

Ammonia, Dodecylphenol, H Acid, Potassium Bromate Advanced. Bois de Rose Oil, Neomycin Sulfate, Vanilla Beans Reduced.

Prices Advanced

Ammonia, anhydrous, $8 per ton (p. 41).
Ammonium nitrate, $3 per ton (p. 41).
Beeswax, crude, African, 2c. per lb. (p. 54).
Cocoa butter, 2c. per lb. (p. 54).
Corn oil, crude, ½c. per lb. (p. 54).
Refd., ½c. per lb. (p. 54).
Diphenemylamine,, 1c. per lb. (p. 42).
Dodecylbenzene, ½c. per lb. (p. 42).
Dodecylphenol, ½c. per lb. (p. 42).
Fennel oil, sweet, 65c. per lb. (p. 51).
H acid, 10c. per lb. (p. 42).
Lemongrass oil, 15c. per lb. (p. 51).
Magnesium chloride, hyd., flk., $5 to $12 per ton (p. 32).
Nitrogen solutions, direct application, $6 per ton (p. 41).
Nonylphenol, ½c. per lb. (p. 42).
Octylphenol, ½c. per lb. (p. 42).
Pimento leaf, 20c. per lb. (p. 51).
Potash sulfate, 5c. per unit (p. 41).
Potassium bromate, 3½c. per lb. (p. 32).
Sodium sulfate, anhyd., $2 per ton (p. 32).
Soybean oil, crude, ¼c. per lb. (p. 54).
Refd., ½c. per lb. (p. 54).
Spearmint oil, 75c. per lb. (p. 51).
Sperm oil, 1c. per lb. (p. 54).
Spermaceti wax, 1c. per lb. (p. 54).
Styrene monomer, 3/10c. per lb. (p. 42).
Tobias acid, 3c. per lb. (p. 42).

Prices Reduced

Bois de rose oil, Brazilian, 5c. per lb. (p. 51).
Carnauba wax, Ceara, crude, 1c. per lb. (p. 54).
Parnahyba, crude, 1c. per lb. (p. 54).
Yellows, 1c. per lb. (p. 54).
Citronella, Java type, 3c. per lb. (p. 51).
Copra, $5 per ton (p. 54).
Lard, cash, ¼c. per lb. (p. 54).
Neomycin sulfate, 5c. to 7c. per gram (p. 41).
Ocotea cymbarum, 3c. per lb. (p. 51).
Olive oil, spot, 5c. per gal. (p. 54).
Safflower, 3/10c. per lb. (p. 54).
Soybean meal, $2 per ton (p. 54).
Tung oil, ¼c. per lb. (p. 54).
Vanilla beans, Bourbon, 25c. per lb. (p. 51).
Mexican cut, 25c. per lb. (p. 51).
whole, 25c. per lb. (p. 51).

OPD Price Index

THE OIL, PAINT AND DRUG REPORTER'S relative record of prices of chemicals and related materials is currently as follows:

(100—1949 average)

Sept. 30, 1960	Sept. 23, 1960	Oct. 2, 1959
109.65	109.53	110.45

OPD Reports From Europe

Chemical Bet: Common Market

American chemical firms are betting plant investments and joint ventures on the development of the Common Market. And just as closely as their European counterparts, they are watching the maneuvering that goes on, as a result of the recent De Gaulle proposals, over the future of the two big European trade communities. The De Gaulle statements with their criticisms of supra-natural powers for the communities also have brought a more than ordinary problem to negotiations for a bridge between the Common Market and the seven other nations joined in the European Free Trade Association.

Most American companies operating in either trade bloc agree with Walter S. Carpenter, jr., chairman of E. I. duPont de Nemours & Co., in arguing that expansion plans for all companies operating in Europe could be made more swiftly if the two trade blocs get together in some fashion.

In the hallways of the Common Market's relatively modest executive staff building in Brussels there is general confidence that it will be nearly impossible for Gen. De Gaulle to do much damage to the structure that has already been built, and it is far from certain that he wants to do such a thing.

But the French price for future progress in integration, and more importantly,

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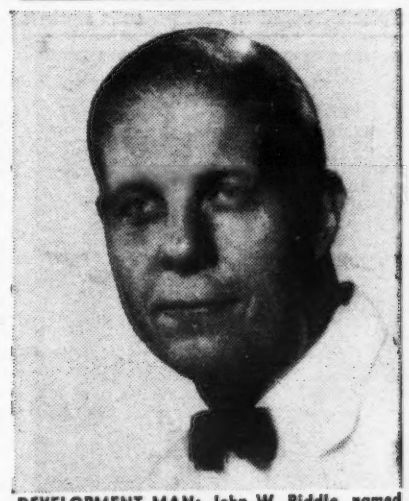

DEVELOPMENT MAN: John W. Biddle, named director of development for Union Carbide Chemicals Company, New York, a division of Union Carbide Corporation.

Tetrabromobisphenol-A Cut

Michigan Chemical Corporation, St. Louis, Mich., has reduced the price of its flameproofing compound, tetrabromobisphenol-A, from 90 cents a pound to 65 cents in commercial quantities. Manufacturing economies have reportedly brought about this price reduction. Tetrabromobisphenol-A, sold under the trade name of "Firemaster BP4A" by Michigan Chemical, is finding increased usage as a fire retardant additive for epoxies, styrene and other resin systems.

Union Oil Has New Head

Dudley Tower has been elevated from executive vice-president to president by Union Oil Company of California, succeeding Reese H. Taylor, who since last April has been both chairman of the board and president.

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HEADS DIVISION: Leo J. Amorosi, named director of the essential oil and aromatic divisions of Norda Essential Oil & Chemical Company, New York.

Acetal Resin Facility Is Set for Netherlands

DuPont de Nemours (Nederland) NV will build a plant in the Netherlands for processing "Delrin" acetal resin for use in the entire western European market. The plant will be located at Dordrecht and will reportedly be the first of its kind in Europe.

Construction will get under way immediately and production is expected to start in 1962. The plant will be equipped for the extrusion, cutting, packaging and shipping of the resin.

"Delrin" acetal resin was introduced commercially in the United States and Europe in 1960, and is the result of twelve years of intensive effort at a cost of approximately $50 million for research, development and operating investment.

Over 80 percent of its potential applications involve replacement of metals, particularly die-casting alloys, because it provides improved products at less cost. "Delrin" is being sold in Europe through a wide network of duPont distributors. Since its intoduction into the European market, this plastic has already been used in more than fifty commercial applications.

DuPont de Nemours (Nederland) NV is an affiliate of E. I. duPont de Nemours & Co., Wilmington, Del.

Airco Plans to Triple Nitrogen, Argon Output

Air Reduction Company, New York, will spend $5 million tripling production of nitrogen and argon gas and expanding its distribution facilities at Acton, Mass.

The plant's capacity will be increased to 205 tons a day of oxygen, nitrogen and argon, and 75 tons a day of other gases.

Spurred by electronic industry, sales of nitrogen have increased 1,400 percent in the last five years, according to Airco. Semi-conductors and other electronic components now account for 85 percent of nitrogen consumption, the company says.

D&O Is 162 This Month

Dodge & Olcott, Inc., reportedly the oldest company in America specializing in the manufacture and sale of essential oils, aromatic chemicals, oleoresins and related products, is celebrating its 162nd anniversary this month. General offices and laboratories are at 180 Varick Street, New York 14.

Pesticide Makers Now Regard The Cranberry Scare as a Boon; It Put Things Out in the Open

The cranberry scare last year may have been a boon to the nation's pesticide makers by bringing into the open charges that before had been primarily at the level of a whispering campaign. In the wake of that tragi-comic episode, says Jackson V. Vernon, has come a stepped-up scare crusade against agricultural chemicals which gives the industry a chance to meet its detractors head on.

Mr. Vernon, president of the National Agricultural Chemicals Association, suggested last week that the cards are now on the table "and it is time to put up or shut up."

His call for a stepped-up public relations campaign was sounded at the Coronado, Calif., meeting of NACA, which also featured the election of Dr. George R. Ferguson to succeed Mr. Vernon at the association's helm.

'Public Must Be Reassured'

The public must be reassured of the importance and safety of agricultural chemicals lest current concern over their use stifle research vital to the nation's agricultural progress, Mr. Vernon said.

He urged the industry to step up its program of discussing the benefits of pesticides and plant foods before civic groups and through public symposia.

"The factual evidence is overwhelmingly on our side," he stated. "We should welcome any opportunity to tell our story. When and where we've had the chance and done so, we have never regretted it."

To help implement its program, Mr. Vernon recommended that the industry support an informal federation of chemical trade organizations to cooperate in such fields of common interest as food additive legislation.

He also urged the development of a sound program on procedures for the operation of scientific advisory committees. An increasing number of problems are being referred to such groups, Mr. Vernon noted.

Developing the same theme before the meeting, Congressman Jamie L. Whitten of Mississippi said that in protesting the public health "we must not permit anyone to endanger the public health of the future by prejudicing public opinion against the very means which makes our ample supplies of wholesome and nutritious food available."

Dr. Ferguson, president of Geigy Agricultural Chemicals Division of Geigy Chemical Corporation, has been a member of NACA's board of directors since 1958 and was the association's vice-president last year. Elected last week to fill the latter post was Herbert F. Tomasek, president of Chemagro Corporation.

Standard of Indiana Set For Corporate Revamping

Standard Oil Company (Indiana) is set to undergo a sweeping corporate change effective December 31. The alteration approved by stockholders will embody a two-fold move:

- Standard (Indiana) will become exclusively a parent company with broad management policy and will coordinate subsidiaries that deal with all aspects of the oil business. The parent company will have no direct operating assets such as it now has in the midwest.
- All product marketing, refining, distribution and research operations and assets of Indiana Standard and its wholly-owned subsidiaries, Utah Oil Refining Company and American Oil Company, will be combined into a single company with unified management and with generally common trademarks and brands.

The new company will be the American

—Continued on page 44

NACA PRESIDENT: Dr. George R. Ferguson, president of Geigy Agricultural Chemicals Division of Geigy Chemical Corporation, elected head of National Agricultural Chemicals Association. (See article above.)

SD Maleic Process Finds German Taker

Scientific Design Company has signed up a customer in Germany for its increasingly popular maleic anhydride process. Rheinpreussen AG, Hoberg, is the latest to come into the fold, and it plans to build a 13.2-million-pounds-a-year unit using the process at Meerbeck.

The process, involving the fixed-bed, catalytic, air oxidation of benzene, is currently in use by thirteen companies throughout the world.

The new plant wil bring the total capacity of SD-resigned maleic anhydride facilities to almost two-thirds of overall world capacity, according to an estimate by SD.

For the German unit, SD will provide complete process design, process engineering, general engineering and major equipment design.

The company will also assist in training of operating personnel and will supervise start-up.

Monsanto Chemical Buys Surplus Government Plant

Monsanto Chemical Company has acquired title to chemical facilities adjacent to its William G. Krummrich plant in Monsanto, Ill. The acquisition involves production units of the old St. Louis Chemical Corps plant and a 15.7 acre tract of land.

During World War II, the plant was operated for the Army by Monsanto to produce specialized medicinals (anti-vesicant agents). Monsanto has been leasing the facility from the government to produce farm chemicals and oil additives.

The St. Louis company had been negotiating for purchase of the property since early this year when General Services Administration declared it surplus.

Natural Gas Rule Turning Out to Be A Chemical Poser

Chemical people who buy from the natural gas industry are a little at a loss these days. They want to know how their costs will be affected by the Federal Power Commission's settlement of the Phillips Petroleum Company gas rates case.

In a landmark opinion, setting the pattern for natural gas rate regulation of independent producers, FPC last week disclosed that it was rejecting the traditional utility rate base method in favor of regulating rates on an area basis.

The agency accepted the rate base approach for settlement of the Phillips case and approved rate increases totaling about $5.7 million annually that had been put into effect provisionally because the evidence was presented in this case on a cost basis.

Why Rejected for Independents Generally

But it added that it was being rejected for independent producers generally because "ridiculous results" would be reached in a great number of cases.

The commission said that the ultimate solution to independent producer rate regulations lies in the determination of fair prices for gas, based on reasonable financial requirements of the industry and not on the rate base and expense of each company.

In its fifty-six page opinion, the commission declared that use of the rate base approach would in all probability result in higher consumer prices as shown by the Phillips and other cases.

It added, however, that the ultimate objective of the area price plan is to set prices adequate to maintain the base supplies needed by consumers, but at prices no higher than necessary to accomplish that purpose.

In line with this objective, the commission issued a policy statement setting rate guidance levels for the nation's various producing areas. Two prices were established for each area—one applicable to new sales and the other for existing contracts.

FPC said it would not authorize new sales at rates higher than those established levels without price justification. Further, any proposed rate increases above these levels will be suspended, the commission said.

IFF Name Is Adopted By Polak & Schwarz

Polak & Schwarz International NV, the Dutch branch of International Flavor & Fragrances, Inc., has adopted the parent company's name. The new name in full is International Flavors & Fragrances IFF (Nederland) NV.

Polak & Schwarz merged with the former van Ameringen-Haebler in 1959 to form International Flavors & Fragrances, Inc., but the Dutch unit continued to trade under its own name.

Koppers Elevates Rice

Koppers Company, Pittsburgh, Pa., has named Jack D. Rice director of procurement and a vice-president of the company. Before becoming assistant director of procurement in 1958, Mr. Rice served as assistant to the director. He has been with Koppers since 1946.

Carbide Olefins Unit Due for a New Lab

Union Carbide Olefins Company's technical center at South Charleston, W. Va., is scheduled for a new laboratory.

The latest installation will be designed to centralize the presently scattered research, development and special instrumentation department of the Union Carbide Corporation affiliate. Although the major portion of the new laboratory building will be occupied by the Olefins Company, there will also be room for the research department of Union Carbide Chemicals Company.

Chemical De-Inking of Newspapers—It's Coming

A $4 million plant for the chemical de-inking of newsprint is expected to be in full operation by January, 1962. This—the nation's first commercial plant for the chemical recovery of used newspapers—is either the prelude to a paper industry revolution or just a variation on an old theme.

The range of opinions encompasses both extremes.

A new, secret chemical process, which uses about 90 percent waste paper and 10 percent chemical fiber has been developed by Richard B. Scudder, publisher of the Newark, N. J., *Evening News*, who is building the plant in nearby Garfield.

One official in the paper industry suggests that the chemical fiber is probably ordinary sulfite or sulfate pulp and that the de-inking method is likely to involve the commonly-used alkalis or mild detergents.

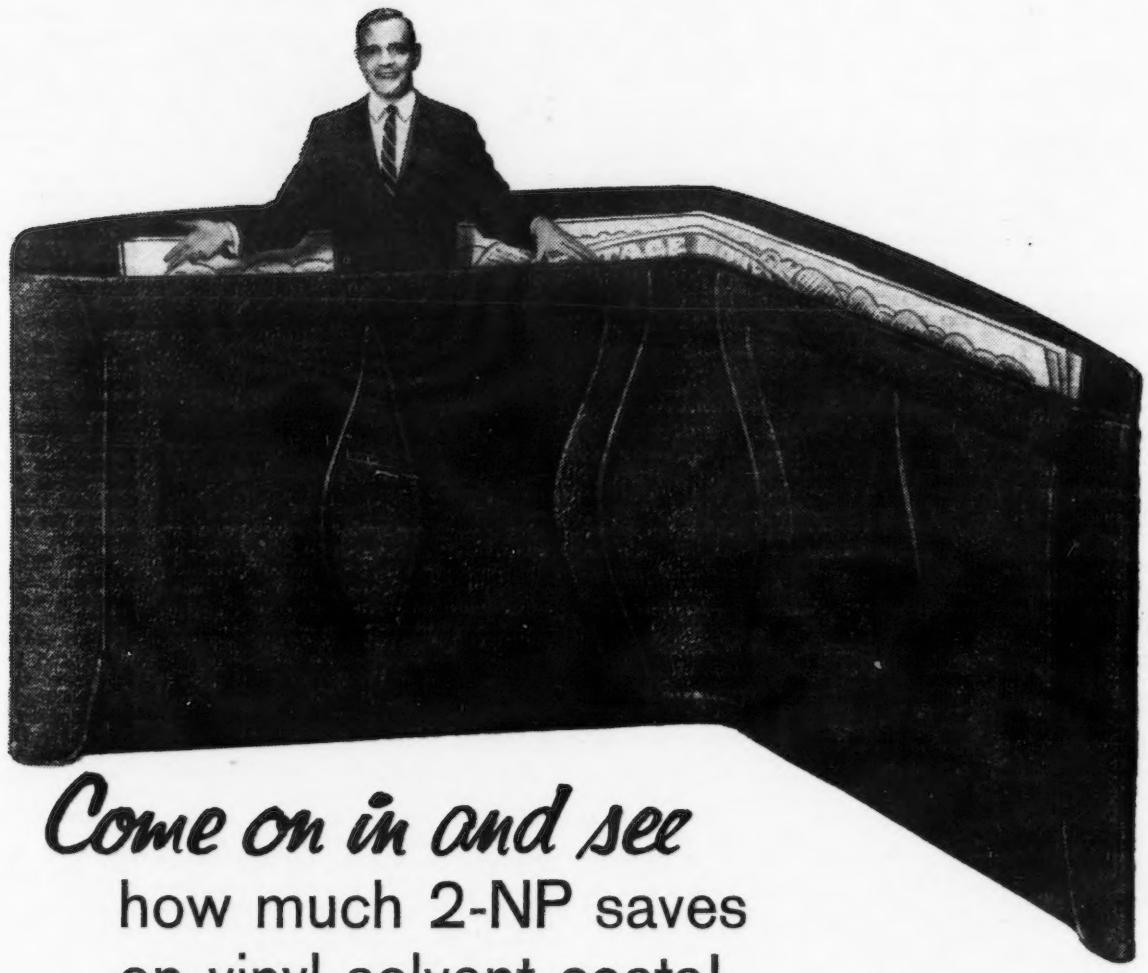
Rather than any "newness" in the process, it's his opinion that the prime mover in this venture is the currently high price of newsprint coupled with a new concept of local marketing that the plant will use.

Backing up this view is the fact that the recovered newsprint will be marketed at $124 a ton as against a current market price of $134. This is a comparatively narrow price differential. Its appeal would be to small papers in the northern New Jersey area, for which the new plant would represent a nearby source of supply.

In one sense, this is a pioneering operation, whether or not the process turns out to be a "secret" one. It will be the first try at recovery of newsprint in a plant that was built for that purpose only.

Previous tries have involved the reconditioning of plants which had processed new pulp or those that were hurriedly built during Korean War days. The economics resulting from this fresh approach

—Continued on page 33



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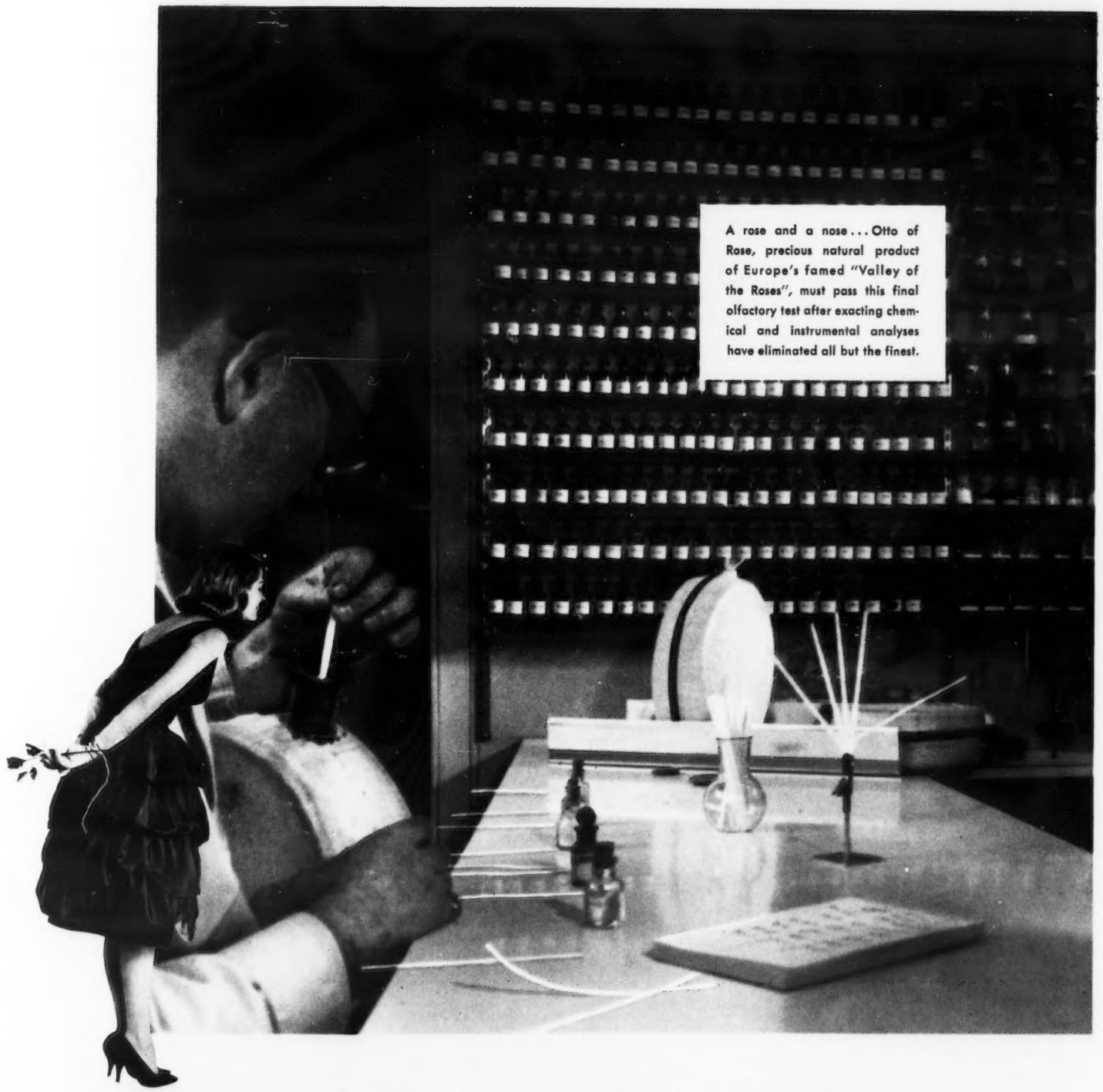
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Glycerine's Belief Holds

Glycerine makers, holding a 10 percent stake in cellophane, are betting that this oldest of transparent films will extend its lead over such eager newcomers as polyethylene.

Today, cellophane represents 59 percent of the transparent film market, and 10 percent of the final product is glycerine, according to a report from the Glycerine Producers' Association. Nearest competitor is polyethylene, with 34 percent of the market.

Though physically this oldtimer is not nearly as tough as some of its rival products, it has proved itself durable enough in the marketplace. Between 1954 and 1959, sales rose a whopping 90 million pounds to 450 million. This in spite of the fact that it was no longer the lowest-priced film.

Glycerine's status in this business is secure. It is the one plasticizing agent which is also safe, non-toxic, imparts no odor, taste or color to the finished sheet. Most important, according to the glycerine makers, is its ability to attract and retain moisture, which substantially increases the flexibility and shelf-life of the film.

Undaunted by the plastics boom, cellophane makers are predicting a 600-million-pound market for their product by 1970, counting on a growing population and expanded self-service merchandising.

This means that the 40 million pounds of glycerine now going into annual cellophane output will look more like 60 million ten years hence.

A 33 percent boost in cellophane consumption by 1970 seems modest enough when compared to the industry's fantastic growth rate since the start of commercial production in 1924.

The first cellophane produced in this country wasn't even waterproof, the glycerine producers re-

—*Continued on page 30*

India's Parliament Gives Nod And Country's Chemical People Get Ready for Boosts in Output

Following a critical 221-9 vote in Parliament, India is all set to go, chemical-wise and otherwise, on its third five-year industrial development plan. Chemical targets, the most ambitious ever, feature self-sufficiency in caustic soda by the end of 1961, a boost in dyestuffs production to 808 million pounds from 11.5 million at present, and a ten-fold increase in plastics production to $210 million. To accelerate overall self-sufficiency, a program for manufacture of basic chemical intermediates will be undertaken in collaboration with the West German government.

From just a "bottler" country India has already grown into a basic producer of drugs from domestic raw materials. Its pharmaceutical output is now running at $157.5 million a year as against $25.2 millin in 1948.

Its Hopes As Alcohol Processor

Progress in alcohol and alcohol-derivative production has been so rapid that the country now hopes to become "one of the world's largest industrial alcohol processors" by 1965. Before then, it will already have moved into production of alcohol-based synthetic rubber and benzene.

Here are other highlights of the new development program as disclosed by the Government of India Information Service:

- Sulfuric acid output, now running at 400,000 tons a year, is targeted for 1,250,000 tons by 1965.
- Caustic soda output will rise to 400,000 tons from 125,000 at present.
- Production of paper and paperboard, thanks to expansion of the local alkali industry, should rise to 820,000 tons from an estimated 360,000 tons this year.

Commenting on progress under the second five-year plan, a spokesman for the Indian government notes that imports are now being drastically curtailed and "in many cases capacities even in excess of current requirements have been built up." In addition, he says the government is looking into the possibility of exporting some chemicals.

Self-sufficiency has been attained in calcium carbide output, the spokesman notes, and the second five-year plan was substantially exceeded in soda ash.

Requirements for chlorine-based chemicals such as insecticides, are now being met by indigenous production. Manufacture of hydrogen peroxide, a chemical not

—*Continued on page 46*

IN SALES POST: Edward W. Bastian, vice-president, named general sales manager of Catalin Corporation of America, New York.

Plastic Makers' Plumbing Toe-Hold Could Lead to Putting Both Feet In

With only a toe-hold in the plumbing business, plastic pipe has already helped reduce the "staggering" $600 million annual piping loss caused by corrosion in the US. That toe-hold can be turned into a lucrative business if plastics makers put both feet in to take advantage of latest developments in reinforced plastics. So says W. R. Dana, of Amercoat Corporation, who reported his ideas to the American Institute of Chemical Engineers in Tulsa, Okla., last week.

Plastics have major advantages over other materials used for pipes, Mr. Dana noted, such as resistance to chemical attack and freedom from corrosive conditions.

But certain disadvantages could slow up progress in this market, it was added. Among the drawbacks are low tensile strength when heated, a tendency to creep and low impact resistance, especially at reduced temperatures.

All these are "largely eliminated by the use of glass fiber-reinforced thermosetting plastics," in Mr. Dana's opinion.

Glass fibers are generally used for reinforcing the resins, but other materials also are being applied, such as synthetic fibers, asbestos, paper, linen, sisal and cotton.

"Rigid reinforced plastics go a step beyond present available thermoplastic materials in satisfying the needs and re-

—*Continued on page 30*

NEW TRADEMARK: This is the just-created symbol for McKesson Laboratories. It will appear on the entire line of more than 200 retail drug products. The old McKesson & Robbins signature is being dropped in all communications of the laboratories division.

Coal Chemicals Parley Set

American Coke & Coal Chemicals Institute will hold its annual meeting October 17 and 18 at the Greenbrier hotel, White Sulphur Springs, W. Va.

J.P. Frank Changes Name, Completes PVC Expansion

J. P. Frank Chemicals & Plastics Company, New York, is the new name of J. P. Frank Company and its subsidiary, Presto Plastic Products Company.

The firm's plant in Brooklyn, N. Y., which produces polyvinyl chloride materials, has recently completed an expansion bringing the company's total capacity up to an estimated 25 million pounds a year. Sales office is in New York.

CCDA and Canadian Group Are All Set to Swap Views

Canadian and US chemical makers are preparing for an exchange of views next fortnight at a joint meeting of Commercial Chemical Development Association and the chemical economics division of the Chemical Institute of Canada. The one-day session will be held October 18 at the Queen Elizabeth hotel in Montreal.

"Problems Within the Canadian Industry," will be discussed by F. Perry Wilson, of Union Carbide of Canada, following opening remarks by John Enns, of duPont of Canada.

After W. N. Hall reviews outside problems affecting the Canadian industry, panelists Warren F. Beasley and William Wishnick will take over. Mr. Beasley is director of development and operation for

—*Continued on page 30*

SOCMA Lists Cast: Gov't Men for Parley

Key representatives of federal agencies will be the drawing cards at the forthcoming third annual seminar on tariff and custom matters to be sponsored by Synthetic Organic Chemical Manufacturers Association.

The all-day lecture and discussion session will be held October 11, at the Delmonico hotel in New York.

Featuring the noon luncheon session will be a talk by Albert MacC. Barnes, the association's legal counsel. Mr. Barnes will review fundamental concepts of the tariff and their utility and importance to the chemical industry.

Speakers at the morning session will review US tariff policy and its evolvement under the trade agreements act of 1934 and the changing concept of protection of domestic industry under the act.

Also included will be a discussion of the

—*Continued on page 44*

Sperm Oil in New Form

Werner G. Smith, Inc., Cleveland, Ohio, is marketing a newly-developed self-emulsifiable sperm oil, which the company describes as the first product of its kind. Known as "W-G-S Sperm Oil 42," the material reportedly provides all the desirable lubricating properties of sperm oil, plus easy emulsification by simple agitation with hot or cold water.

Association Meetings

American Association of Textile Chemists & Colorists, national convention, Sheraton hotel, Philadelphia, October 6-8.

American Coke & Coal Chemicals Institute, annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., October 17-18.

American Council of Independent Laboratories, annual meeting, Deauville hotel, Miami Beach, Fla., October 11-15.

American Mining Congress, convention and exposition, Convention Center, Las Vegas, Nev., October 10-13.

American Oil Chemists' Society, fall meeting, New Yorker hotel, New York, October 17-19.

Association of Consulting Chemists & Chemical Engineers, annual meeting, Shelburne hotel, New York, October 25.

Association of Official Agricultural Chemists, annual conference, Shoreham hotel, Washington, October 10-12.

Canadian Manufacturers of Chemical Specialties Association, annual meeting, Queen Elizabeth hotel, Montreal, Que., Canada, October 24-26.

Chemical Bureau Alumni Meeting, Lexington hotel, New York, October 20.

Chemical Buyers Group of National Association of Purchasing Agents, fall conference, Pick-Congress hotel, Chicago, October 27.

Chemical Market Research Association, Pittsburgh Hilton hotel, Pittsburgh, Pa., November 9-10.

Commercial Chemical Development Association, joint meeting with the chemical economics division of the Chemical Institute of Canada, Queen Elizabeth hotel, Montreal, Canada, October 18.

Electrochemical Society, Shamrock hotel, Houston, Tex., October 9-13.

Federation of Societies for Paint Technology, annual meeting, Sherman hotel, Chicago, October 31-November 2.

Manufacturing Chemists Association, semi-annual meeting and midyear conference, Statler Hilton hotel, New York, November 22.

National Drug Trade Conference, annual meeting, Gramercy Park hotel, New York, December 16.

National Foreign Trade Council, national meeting, Waldorf-Astoria hotel, New York, November 14-16.

National Paint, Varnish & Lacquer Association, annual convention, Drake hotel, Chicago, October 27-29.

National Pest Control Association, annual convention, Tulsa, Okla., October 17-20.

Northeastern Weed Control Conference, annual meeting, New Yorker hotel, New York, January 4-6.

Packaging Institute, annual national packaging forum, Statler-Hilton hotel, New York, October 31-November 2.

Parenteral Drug Association, annual convention, Statler hotel, New York, October 19-21.

Pharmaceutical Manufacturers Association, eastern regional meeting, Waldorf-Astoria hotel, New York, December 12-14.

Salesmen's Association of the American Chemical Industry, annual sales clinic, Roosevelt hotel, New York, November 14.

Society of Chemical Industry, American section, chemical industry medal award dinner, Waldorf-Astoria hotel, New York, October 21.

Society of the Plastics Industry, New England section conference, Wentworth-by-the-Sea, Portsmouth, N. H., October 13-14.

Synthetic Organic Chemical Manufacturers Association, all-day seminar on tariffs and customs, Delmonico hotel, New York, October 11.

Toilet Goods Association, scientific section's winter meeting, Waldorf-Astoria hotel, New York, November 30; annual convention, Waldorf-Astoria hotel, New York, May 9-11.

CHEMICALS AND RELATED MATERIALS

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Current MARKET Quotations

Unless otherwise indicated, listings are first-hand quotations prevailing, according to information and belief, September 30 on large lots, f.o.b. New York, with the lowest in the left-hand column and the highest in the right-hand column. The listings do not represent bid and asked prices nor a range over the week. Differences between high and low may be accounted for by differences in quantity, quality, locality, or individual suppliers' views. An index to the weekly market reports is to be found on page 4.

A

Abies siberica oil, cns. ..... lb. 1.90 - 2.40
Acacia (see Arabic gum).
Acetaldehyde 99%, dms., c.l., works. lb. .12 - —
dms., l.c.l., works ..... lb. .13½- —
tanks, works ..... lb. .10 - —
Acetaldol (see Aldol).
Acetanilide, tech., flaked, bbls., bgs., c.l., frt. alld lb. .32½- —
bbls., bgs., ton lots, frt. alld. lb. .33½- —
bbls., bgs., smaller lots, frt. alld lb. .36½- —
USP, bbls., 225-lb. dms., any quantity lb. .79 - —
100-lb. dms., any quantity lb. .81 - —
Acetic acid, coml., or redist., 28%, bbls. 100 lbs. 4.80 - —
56%, bbls. ..... 100 lbs. 8.25 - —
70%, bbls. ..... 100 lbs. 9.95 - —
80%, bbls. ..... 100 lbs.10.45 - —
Acetic acid, glacial, syn., CP, dms., dlvd. 100 lbs.22.00 -23.00
tech., dms., c.l., dlvd. 100 lbs.13.75 - —
dms., l.c.l., dlvd. 100 lbs.15.25 - —
tanks, dlvd. ..... 100 lbs.10.00 - —
USP, cbys., dlvd. 100 lbs.31.00 -32.00
Acetic anhydride, aluminum ret. dms., c.l., dlvd. E lb. .16½- —
aluminum ret. dms., l.c.l., dlvd. E. lb. .18 - —
tanks, dlvd. E ..... lb. .14 - —
Acetoacetanilide, fib. dms., c.l., dlvd lb. .80 - —
fib. dms., l.c.l., dlvd ..... lb. .81 - —
Acetoacet-o-chloroanilide, fib. dms., c.l., dlvd lb. 1.35 - —
fib. dms., l.c.l., dlvd ..... lb. 1.36 - —
Acetoacet-o-toluidide, fib. dms., c.l., dlvd lb. .82 - —
fib. dms., l.c.l, dlvd ..... lb. .83 - —
Acetone, CP, dms., c.l., dlvd lb. .10½ - —
dms., l.c.l., dlvd ..... lb. .12 - —
tanks, dlvd. ..... lb. .03 - —
Acetonitrile, dms., c.l., t.l., dlvd lb. .35 - —
dms., l.c.l., dlvd ..... lb. .36½- .37
tanks, dlvd. ..... lb. .32 - —
Acetophenetidin, USP, 200-lb. dms., 1,000 lbs., frt. alld lb. 1.20 - —
100-lb. dms., 1,000 lbs., frt. alld. lb. 1.22 - —
Acetophenone, cns., dms. ..... lb. .42 - 1.30
Tech., dms., c.l., works ..... lb. .47 - —
dms., l.c.l., works ..... lb. .47¾- —
tanks, works ..... lb. .45 - —
N-Acetyl-p-aminophenol, dms., t.l. (min. 23,000 lbs.), frt. adjusted lb. 1.24 - —
dms., 5,000-lb. lots, same basis lb. 1.30 - 1.45
dms., smaller lots, same basis lb. 1.35 - 1.63
Acetylene black, imp., bgs., c.l., duty and freight extra lb. .20 - —
cs., l.c.l., ex whse. ..... lb. .25½- .31
Acetylene tetrabromide, 16-dm. lots or more, f.o.b. works lb. .53 - —
Acetylsalicylic acid, USP, cryst. (20, 40 mesh), powd. (80 mesh), 250-lb. dms., c.l., pt. of shipt lb. .56¼- —
USP, 10% starch granulation, 12-50 mesh, white, 250-lb. dms., c.l., same basis lb. .56¼- —
(Pink and green granulations 5c. per lb. higher.)
Freight equald, shipt. identical quantity over standard routes, from N.Y., Phila., Midland, Mich., Chicago and St. Louis.
Acetyltributyl citrate, tech., non-ret. dms., c.l., frt. alld. E. of Denver lb. .35½- —
non-ret. dms., l.c.l., frt. alld. E. of Denver lb. .36½- —
tanks, frt. alld. E. of Denver. lb. .33 - —
non-ret. dms., c.l., frt. alld. E. of Denver. lb. .39½- —
non-ret. dms., l.c.l., frt. alld. E. of Denver lb. .40½- —
tanks, frt. alld. E. of Denver lb. .37 - —

ACIDS

Acid quotations are listed individually. For example, prices on Acid, cresylic, may be found in the C's under Cresylic acid.

Aconite root, bls. ..... lb. .50 - .55
Acrolein, tech., dms., c.l., works lb. .36 - —
dms., l.c.l., works ..... lb. .36¾ - —
tanks, works ..... lb. .31 - —
Acrylamide, dms., t.l., f.o.b. works. lb. .58 - —
dms., l.t.l., same basis ..... lb. .60 - —
Acrylic acid, glacial, dms., c.l., t.l., dlvd. lb. .42½- —
dms., l.c.l., l.t.l., dlvd ..... lb. .43½- —
tanks, dlvd. ..... lb. .40 - —
tech., esterification, dms., t.l., frt. prepaid lb. .41½- —
tanks, same basis ..... lb. .39 - —
tech., polymerization, dms., t.l., f.o.b. shipping point lb. .42½- —
tanks, same basis ..... lb. .40 - —
Acrylonitrile, dms., c.l., t.l., frt. equald lb. .26 - —
dms., l.c.l., l.t.l., frt. alld ..... lb. .27 - —
tanks, frt. equald ..... lb. .23 - —

Abies Siberica Oil—Ammonium Bicarbonate

Adeps lanae (see lanolin).
Adipic acid, bgs., c.l., dlvd ..... lb. .32¼- —
bgs., l.c.l., dlvd ..... lb. .35 - —
Agar, USP, Kobe No. 1, strip, bls. lb. 2.75 - 3.00
powd., 30 mesh., fib., dms lb. 2.40 - —
dl-Alanine, dms., 100-lbs. or more, f.o.b. works lb. 5.25 - —
dms., 1-99 lbs., same basis ... lb.10.00 - —
Aldol, 95%, dms., l.c.l., works lb. .28 - —
Aldrin, tech., fib. dms., c.l., t.l. dlvd lb. .99 - —
fib. dms., l.c.l., dlvd ..... lb. 1.04 - —

ALCOHOLS

Alcohol quotations are listed individually. For example, prices on Alcohol, furfuryl, may be found in the F's under Furfuryl alcohol.

Aletris root, bgs ..... lb. 1.50 - 1.75
Algin (see Sodium alginate)
Alizarin (see 1,2-Dihydroxy anthraquinone).
Alkali blue dry, 250-lb. bbls., dlvd. E. of Rockies lb. 2.38 - —
Alkali blue, toner, litho flushed, 125-lb. bbls., same basis, lb. 1.35 - —
Alkali blue prices 1c. higher W. of Rockies.
Allethrin, 90%, dms., frt. alld lb.28.80 -28.90
Soln., 20%, dms., 200-2,000 lb. lots, frt. alld. lb. 6.50 - 6.55
2½% dms. frt. alld. ..... lb. .95 - 1.10
Allspice oil (see Pimento oil).
Allyl alcohol, dms., c.l. dlvd. ..... lb. .32½- —
dms., l.c.l., dlvd. ..... lb. .34 - —
tanks, dlvd. ..... lb. .30 - —
Allyl bromide 55-lb. cbys. 5,005 lbs. or more, works lb. 1.47 - —
55-lb. cbys., 1,045 to 4,950 lbs., works lb. 1.52 - —
55-lb. cbys., 55 to 990 lbs. works, lb. 1.57 - —
Allyl chloride, dms., c.l., dlvd. ... lb. .17½- —
dms., l.c.l., dlvd. ..... lb. .19 - —
tanks, dlvd. ..... lb. .15 - —
Allyl isothiocyanate (see Mustard Oil, syn.).
Almond oil, artif., bitter (see Benzaldehyde)
Almond oil, nat., bitter, f.p.a., bots. lb. 2.75 - 3.45
NF, bots. ..... lb. 3.00 - 3.30
sweet, USP, cns., dms ..... lb. .70 - 1.30
Aloe, Cape, cs ..... lb. .30 - .35
powd., cs. ..... lb. .60 - .65
Curacao, kgs. ..... lb. .60 - .70
powd., kgs. ..... lb. .55 - —
Aloin, USP, bbls., dms., kgs ..... lb. 3.25 - 3.75
Alphanaphthol (see a-Naphthol).
Alphanaphthylamine (see a-Naphthylamine).
Alphanitronaphthalene (see a-Nitronaphthalene).
Alphapicoline (see a-Picoline).
Alphaterpinol (see a-Terpinol).
Alphatocopherol (see a-Tocopherol).
Alum ammonium, gran., bgs., works. 100 lbs. 4.30 - —
Lump, dms., works ..... 100 lbs. 5.05 - —
Powd., dms., works ..... 100 lbs. 5.20 - —
USP, burnt., dms ..... lb. .20 - .21
hydrous, dms. ..... lb. .07¾- .08
Alum potassium, gran., bgs., works. 100 lbs. 4.55 - —
Lump, dms., works ..... 100 lbs. 5.30 - —
Powd., dms., works ..... 100 lbs. 5.45 - —
USP, burnt., dms ..... lb. .20 - .21
USP, hydrous, dms ..... lb. .07¾- .08
Alum, potash-chrome, dms ..... lb. .17 - —
Alumina, calcined, bgs., c.l., works. lb. .05¼- —
bgs., l.c.l., works ..... lb. .05½- .08¼
Aluminum acetate, basic soln., 24%, bbls., l.c.l, works lb. .14 - —
Aluminum chloride, coml., anhyd., dms., c.l., works, frt. equald lb. .16 - —
dms., l.c.l., works ..... lb. .16½- —
cryst., dms., c.l., works 100 lbs.21.00 - —
dms., l.c.l., works ..... 100 lbs.21.50 - —
Soln., 32° cbys., c.l., works ..... lb. .0495- —
cbys., l.c.l., works ..... lb. .0570- .1095
tanks, works ..... 100 lbs. 3.95 - —
NF, gran., dms., works ..... lb. .31 - .32
Aluminum fluoride, tech., anhyd., bgs., c.l., works lb. .16¼- —
bgs., l.c.l., works ..... lb. .17¼- .19¼
bulk, c.l., basis 80% ..... lb. .14½- —
Aluminum fluoride in fib. dms. 0.35c per lb. higher
Aluminum formate, basic soln., containers extra, c.l., works. 100 lbs.11.00 - —
containers extra, l.c.l., works. 100 lbs.11.50 - —
Aluminum hydrate, heavy, bgs., c.l., frt. equald lb. .0365- —
bgs., 20,000-40,000 lb. lots, same basis lb. .039 - —
bgs., 2,000-20,000 lb. lots, same basis lb. .049 - —
bulk, c.l., same basis ..... lb. .03¼- —
Aluminum hydroxide, dried, USP XV, fib. dms., works lb. .82½- —
fib. dms., contract, works lb. .79½- —
Aluminum hydroxide, gel, pharmaceutical, 14-15% Al_2O_3, fib dms., works lb. .22 - —
9-9½% Al_2O_3, fib. dms., works. lb. .19 - —
fib. dms., contract, works lb. .18 - —
Aluminum hydroxide, tech., powd., (see Aluminum hydrate).
Aluminum metal, 99½% + 30-lb. ingots, 10,000-lb. lots, frt. alld lb. .2310- —
50-lb. pigs, 10,000-lb. lots, frt alld. lb. .26 - —
Aluminum oxide, amorphous (see Alumina, calcined).
Aluminum paste, lining, extra-fine, dms. lb. .71 - —
Standard grade, dms ..... lb. .48½- —
Aluminum powder, lining, extra-fine, dms. lb. 1.13 - —
Standard grade, dms ..... lb. .83 - —
Aluminum paste and powder prices are f.o.b. shipping point. Add 1c. per lb. for 100-lb. dm., 1½c. per lb. for 50-lb. dm., 3c. per lb. for 10 lb. can and 5c. to 12c. per lb. for smaller containers. Deduct 1c. per lb. for single shipment of 400 to 1,499 lbs. 2c. for 1,500 to 4,999 lbs., 3c. for 5,000 to 29,999 lbs. and 4c. for 30,000 lbs. or more. Where destination is within the continental U. S., a deduction equivalent to the lowest available common carrier transportation rate will be made from seller's invoice on orders of 200 lbs. or more.
Aluminum resinate, precip., 3.4% Al, dms lb. .40¼- —
Aluminum stearate, dibasic, ctns., c.l. lb. .39 - —
ctns., l.c.l. ..... lb. .40 - .44
Monobasic, ctns., c.l. ..... lb. .39 - —
ctns., l.c.l. ..... lb. .40 - .44
Tribasic, ctns., c.l. ..... lb. .39 - —
ctns., l.c.l. ..... lb. .40 - .44
Aluminum sulfate, coml., grd., bgs. c.l., works, frt. equald ton.41.00 - —
bulk, c.l., same basis ..... ton.40.00 - —
lump, bgs., c.l., same basis ton.44.00 - —
iron-free, bgs., c.l., works, frt. equald. 100 lbs. 3.80 - —
bgs., l.c.l., works, frt. equald. 100 lbs. 4.30 - 8.30
USP, gran., 400-lb. dm., works. lb. .30 - —
USP, powd., dms., works ..... lb. .27 - —
Aluminum sulfate prices $1 per ton higher in the South.
Aluminum trihydrate, heavy (see Aluminum hydrate, heavy).
Ambergris, gray, bots ..... oz. 6.50 -10.00
P-Aminoacetanilide, tech., paste, dms., frt. alld. lb. 1.57 - —
Aminoacetic acid, NF, bbls., frt. adjusted lb. 1.35 - 1.60
Aminoazotoluene base, bbls., 100% basis lb. 1.03 - 1.18
p-Aminobenzoic acid, tech., dry, dms., works lb. 1.72 - —
2-Amino-4-chlorophenol, tech., solid, dms., frt. alld. lb. 8.10 - —
p-Aminodiphenylamine, tech., solid, dms., frt. alld. lb. 3.00 - —
Aminoethyl ethanolamine, dms., c.l., dlvd. lb. .475 - —
dms., l.c.l., dlvd ..... lb. .49 - —
tanks, dlvd. ..... lb. .45 - —
2-Amino-2-methyl-1-propanol, dms., c.l., frt. alld. lb. .44 - —
dms., l.c.l., frt. alld ..... lb. .45 - —
tanks, frt. alld. ..... lb. .42 - —
m-Aminophenol, dist., dms., ton lots. lb. 2.05 - —
dms., smaller lots. ..... lbs. 2.50 - —
p-Aminophenol, dms., frt. alld. lb. 1.15 - —
Aminophylline, USP, 100-lb. dm., frt. alld. lb. 3.25 - —
p-Aminosalicylic acid, dms., 100 lbs. or more, frt. adjusted lb. 3.40 - —
Ammonia, anhyd., fertilizer, tanks, works, frt. equald. E. of Rockies ton.92.00 - —
refrigeration, tanks, works, frt. equald. E. of Rockies ton.94.50 - —
Aqueous, 29.4%, tanks, works, anhyd. basis, E. of Rockies. ton.95.00 - —
Ammoniacal liquor (see Ammonia, aqueous).
Ammoniac, sal., gray, bgs., c.l., works, frt. equald 100 lbs. 8.25 - —
bgs., l.c.l., same basis 100 lbs. 8.65 -12.65
Ammoniac, sal., white (see Ammonium chloride, tech.)
Ammonium acetate, purif., dms lb. .40 - —
Ammonium benzoate, USP, fib. dms. ton lots, works lb. 1.00 - —
fib dms. 1,000-lb. lots, works. lb. 1.05 - —
Ammonium biborate, gran., dms., cl., works ton.325 - —
dms., ton lots, ex whse. 100 lbs.20.40 - —
dms., smaller lots, ex whse. 100 lbs.21.15 - —
Ammonium bicarbonate, dom., dms., c.l., works 100 lbs. 7.00 - —
dms., l.c.l., works ..... 100 lbs. 9.00 - —

Abbreviations

Used in OPD Market Quotations

alld.	allowed	distr.	distributor	No.	number
amorph.	amorphous	djns.	demijohns	nom.	nominal
AMP	American melting point	dlvd.	delivered	o-	ortho
anhyd.	anhydrous	dms.	drums	ord.	ordinary
AOAC	Association of Official Agricultural Chemists	dom.	domestic	oz.	ounce
		E.	east	p-	para
a.p.a.	available phosphoric acid	e.p.	end point	Pac.	Pacific
approx.	approximately	equald.	equalized	pf.	proof
artif.	artificial	exp.	expressed	phos.	phosphate
ASTM	American Society for Testing Materials	Ext.	external	photo.	photographic
		F.	fahrenheit	pkgs.	packages
Atl.	Atlantic	ferment.	fermentation	powd.	powdered
Be.	Baume	f.f.a.	free fatty acid	precip.	precipitated
bbls.	barrels	f.f.c.	free from chlorine	prod.	producer
bgs.	bags	fib.	fiber	pt.	point
bls.	bales	f.o.b.	free on board	pulv.	pulverized
bots.	bottles	f.p.a.	free of prussic acid	purif.	purified
b.p.	boiling point	frt.	freight	redist.	redistilled
b.p.l.	bone phosphate of lime	gal.	gallon	refd.	refined
b.r.	boiling range	gran.	granular	refy.	refinery
bxs.	boxes	grd.	ground	reg.	regular.
C.	centigrade	i.&a.	iron and aluminum	resub.	resublimed
cbys.	carboys	i.b.p.	initial boiling point	ret.	returnable
CD	completely denatured	imp.	imported	SD	specially denatured
c.i.f.	cost, insurance, freight	incl.	included	s.d.	single distilled
cks.	casks	indust.	industrial	S E.	southeast
c.l.	carlots	kgs.	kegs	sec.	secondary
cns.	cans	l-	laevo	secs.	seconds
coml.	commercial	lacq.	lacquer	s.g.	specific gravity
conc.	concentrated	lb.	pound	shipt.	shipment
CP	chemically pure	l.c.l.	less carlots	soln.	solution
cps.	centipoises	l.t.l.	less truckload	s.u.	standard unit
cryst.	crystalline	liq.	liquid	syn.	synthetic
cs.	cases	mfrs.	manufacturers	tanks.	railroad tankcars
ctns.	cartons	m-	meta	tech.	technical
cyls.	cylinders	m.a.p.	mixed aniline point	tert-	tertiary
d-	dextro	min.	minimum	t.l.	truckloads
dbl.	double	m.p.	melting point	t.w.	tankwagons
denat.	denatured	N-	nitrogen	USP	U. S. Pharmacopoeia
dest-dist.	destructively—distilled	n-	normal	vis.	viscosity
dl-	dextro-laevo	nat.	natural	VM&P	varnish makers & painters
dist.	distilled	neut.	neutral	W.	west
		NF	National Formulary	whse.	warehouse
		NNR	New and Nonofficial Remedies	w.w.	water-white

A unit-ton is 2,000 pounds of 1 percent of the basic constituent or other standard of the material. The percentage figure of the basic constituent multiplied by the price figure shown gives the price of 2,000 pounds of the material.

Ammonium bichromate, dms., works, lb. .42 - .43
Ammonium bifluoride, dms., dlvd lb. .2145- .2345
Ammonium bromide, NF, gran., dms., c.l., t.l., frt. equald..lb. .44 - .46
dms., l.c.l., same basis.....lb. .46 - .48
Ammonium carbonate, USP, lump, dms., c.l.. lb. .15½- —
Ammonium chloride, white, tech., fine gran., bgs., c.l., works, 100 lbs. 6.00 - —
bgs., l.c.l., works.....100 lbs. 8.00 - 8.45
USP, gran., 250-lb. dm.....lb. .17¼- —
Ammonium citrate, dibasic, 250-lb. dm, f.o.b. works..lb. .77 - —
Ammonium dichromate (see Ammonium bichromate).
Ammonium fluoride (see Ammonium bifluoride)
Ammonium gluconate, tech., 200-lb. dm., f.o.b. works E..lb. .45 - —
Ammonium hydroxide (see Ammonia aqeous).
Ammonium iodide, NF, 25-lb. jar, f.o.b. works..lb. 4.26 - —
Ammonium lauryl sulfate, dms., c.l., frt. alld..lb. .20½- —
dms., l.t.l., frt. alld.....lb .21½- —
tanks, frt. alld.....lb. .19½- —
Ammonium lignin sulfonate, bgs., c.l., works..100 lbs. 3.25 - —
bgs., l.c.l., works.....100 lbs. 3.40 - 3.65
Ammonium linoleate, 80%, dms., works..lb. .50 - .55
Ammonium molybdate, CP, cryst., 400- lb. dms., 15,000-lbs. works, lb. 1.22 - —
400-lb. dms., 2,000-lb. contracts, works..lb. 1.23 - —
400-lb. dms., works.....lb. 1.24 - —
Ammonium nitrate, dom., fertilizer grade, 33.5% N, bgs., f.o.b. works..ton.67.00 - —

Ammonium nitrate, dom., with dolomite, 20.5% N, bgs., c.l., Hopewell, Va..ton.48.00 - —
Imp., Canadian, 33.5% N, eastern, bgs., c.l., ship't point, frt. equald to $3 ton base price..ton.54.00 - —
Ammonium oxalate, tech., fine gran., 250-lb. dm., f.o.b. works E..lb. .28½- —
Tech., powd., 200-lb. dm., same basis..lb. .28½- —
Ammonium pentaborate, gran., bgs., c.l., works..ton.193.00 - —
bgs., ton lots, ex wnse..100 lbs.14.23 - —
bgs., smaller lots, ex whse, 100 lbs.15.48 -17.48
Ammonium pentaborate powder $10 per ton higher in bags.
Ammonium persulfate, tech., dms., 10-ton lots or more, works..lb. .18 - —
dms., smaller lots, works....lb. .20 - .23
Ammonium phosphate, coml., bgs., c.l., works, frt. equald..lb. .09¼- —
bgs., l.c.l., same basis.....lb. .10 - —
Dibasic, NF, V, bbls., dms..lb. .46 - —
Dibasic, tech., bgs., c.l., works, frt. alld..lb. .09¼- —
Ammonium silicofluoride, dms., works lb. .12¼- .13¾
Ammonium sulfamate, bgs., c.l., t.l., works..lb. .19 - —
bgs., l.c.l., works.....lb. .20½- .27
Ammonium sulfate, standard granular, bulk, f.o.b. works, base price..ton.32.00 - —
Ammonium sulfate, standard, gran., purif., c.l., 100-lb. bgs., f.o.b. works..lb. .06½- —
Large granular, bulk, c.l., works, ton.35.00 - —
bgs., c.l., works.....ton.40.00 - —
Tech., bulk, c.l., t.l., works..ton.52.00 - —
bgs., c.l., t.l., works.....ton.56.00 - —
bgs., l.c.l., l.t.l., works..100 lbs. 3.20 - 5.20

Ammonium sulfide, liq., 40-44%, tanks, frt. equald., 100% basis, ton.160.00 - —
Ammonium sulfocyanide, tech. (see Ammonium thiocyanate).
Ammonium thiocyanate, tech., cryst., dms., c.l., works..lb. .20 - —
dms., l.c.l., works.....lb. .22 - .26
Tech, soln., 50%, tanks, frt. equald., basis ammonium thiocyanate content lb. .17¼- —
Ammonium thioglycolate, coml., 55-gal. dms., ton lots, 100% basis..lb. 1.15 - —
d-Amphetamine hydrochloride, monobasic, dms..lb.17.50 -23.50
dl-Amphetamine hydrochloride, dibasic, dms. lb. 4.50 - 6.00
d-Amphetamine phosphate, fib. dms., 100-lb. lots..lb.15.00 - —
dl-Amphetamine phosphate, dms.lb. 4.20 - 5.60
d-Amphetamine sulfate, fib. dms. lb.15.00 -17.00
dl-Amphetamine sulfate, fib. dms., lb. 4.20 - 5.60
Amyl acetate, ex fusel oil, tech., dist., from 125° to 150°C., dms., c.l., frt. alld. E. of Rockies lb. .18½- .19
dms., l.c.l., same basis....lb. .20 - .20½
tanks, same basis.....lb. .16 - .16½
Amyl acetate, ex pentane, reg., dms., c.l., dlvd..lb. .19 - —
dms., t.c.l., dlvd. .....lb. .21½- —
tanks, dlvd. .....lb. .16½- —
tech., dms., c.l., dlvd. .....lb. .17 - —
dms., l.c.l., dlvd. .....lb. .18½- —
tanks, dlvd. .....lb. .14½- —

Amyl acetate, syn., oxo process, dms., c.l., dlvd..lb. .19 - —
dms., c.l., dlvd. .....lb. .20½- —
tanks, dlvd. .....lb. .16½- —
Amyl alcohol, ex fusel oil (see Fusel oil refd).
Amyl alcohol, ferment, refd., 128°-132°C., dms., l.c.l., dlvd..lb. .43½- —
refd., ACS grade, dms., l.c.l., dlvd lb. .45½- —
ex pentane, mixed amyls, dms., c.l., frt. alld..lb. .19 - —
dms., l.c.l., frt. alld.....lb. .20½- —
tanks, frt. alld. .....lb. .16½- —
Amyl alcohol, primary, dms., c.l., frt. alld..lb. .20¼- —
dms., l.c.l., frt. alld.....lb. .21¾- —
tanks, frt. alld.....lb. .17¾- —
Sec-synthetic, dms., c.l., works, frt. alld..lb. .19 - —
dms., l.c.l., same basis....lb. .20½- —
tanks, same basis .....lb. .17 - —
Tert-synthetic, dms., c.l., frt. alld. E..lb. .17 - —
dms., l.c.l., frt. alld. E. ....lb. .18½- —
tanks, frt. alld. E. .....lb. .14½- —
Amyl alcohol, 1-pentanol (syn. normal), dms., c.l., works..lb. .41½- —
dms., l.c.l., works.....lb. .43 - —
tanks, works .....lb. .39½- —
2-pentanol, dms., c.l., works..lb. .65 - —
dms., l.c.l., works .....lb. .70 - —
tanks, works .....lb. .60 - —
Amyl n-butyrate, dms. .....lb. 1.00 - 1.25
Amyl cinnamic aldehyde, dms..lb. 1.70 - 2.20
p-tert Amyl phenol, dms., c.l., works, lb. .26¾- —
dms., l.c.l., works .....lb. .27¾- —
Amyl salicylate, cns., dms. .....lb. .71 - —

Interested personal service⇒ always— when you buy from Eastman...

Acids and Anhydrides

acetic acid
Organic synthesis
Reaction medium and solvent
Dyeing assistant

acetic anhydride
Acetylating agent
Dehydrating agent in nitration and sulfonation reactions, etc.

propionic acid
Ca or Na salt used as bread mold inhibitor

propionic anhydride
Acylating agent
Intermediate

n-butyric acid
For the preparation of butyric esters useful in formulating perfumes and flavorings

n-butyric anhydride
Acylating agent
Intermediate

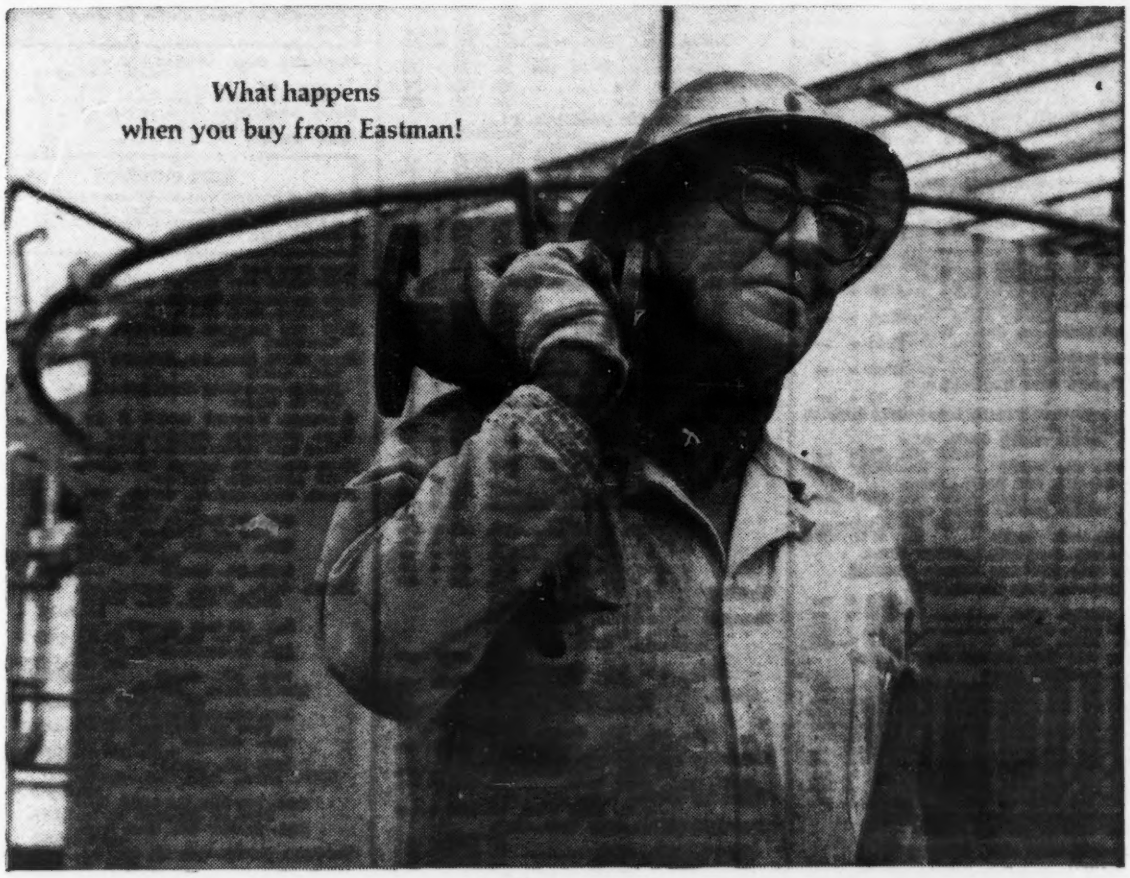
isobutyric acid
As a starting point for the synthesis of plasticizers, perfume materials and lacquer solvents

isobutyric anhydride
For the preparation of aromatic esters for perfumes

2-ethyl hexoic acid
Pb, Mn and Co salts are used as oil paint driers; Zn and Na salts as emulsifying and dispersing agents

crotonic acid
A versatile and reactive intermediate

For properties and shipping information on these and other Eastman products, see Chemical Materials Catalog, page 395 or Chemical Week Buyers' Guide, page 107



The case of the culprit catalyst

"The phone was ringing when I walked into the office on that Monday morning," mused one of our regional sales managers.

"The customer's greeting was rather cheerful considering the circumstances he then proceeded to relate.

"In his own words it went something like this: 'We have a new process technique out here, but we're not overly proud of it. We're making aluminum acetate...using as reactants *your glacial acetic acid* and one of our new aluminum storage tanks.'

"I was glad he still had a sense of humor but wished that I had taken the day's vacation, which was briefly considered late Sunday.

"Well, he went on to relate that their yields on a process (not the new one he had just mentioned) in which our acetic acid was one of the reactants had dropped off alarmingly. While checking out process controls and materials they found aluminum acetate in the acetic acid storage tank.

"Under the circumstances his conclusion that our acid contained a catalyst for the unwanted reaction seemed even to me a reasonable hypothesis.

"Arrangements were made to send a large sample to our Acid Division Control Laboratories for complete analysis, and I held my breath several days until the final report came in.

"A metal catalyst was present, but one that for a number of good reasons we avoid like the plague. Armed with the information that it was extremely unlikely that contamination occurred prior to unloading, we dispatched a technical service man to the customer's plant to help find out where it was coming from.

"And with the aid of an improperly functioning check valve, he did. Seems that the acetic acid storage tank was connected directly to a reactor in which the metal catalyst was (as it should have been) present in salt form. Trace amounts were reaching the storage tank...and you know the rest.

"Fortunately, tank damage was not extensive, and by filtering, they were able to make use of the acid containing the aluminum acetate. After cleaning out the tank it was filled back up... with a new supply of our pure glacial acetic acid.

"Oh yes, a brand new check valve was installed, too."

The normal way we keep our customers happy? If necessary, yes. But more an example of the interested personal service you get when you buy from Eastman.

Eastman CHEMICAL PRODUCTS, INC., KINGSPORT, TENNESSEE, Subsidiary of Eastman Kodak Company

SALES OFFICES: Eastman Chemical Products, Inc.
West Coast: Wilson & Geo. Meyer & Company

Amyris oil, dms. ..... lb. 1.55 - —
Anethol, tech., dms. ..... lb. .80 - .92
USP, cns., dms. ..... lb. 1.05 - —
Angelica root, bls ..... lb. .85 - .90
Angelica root oil, bots ..... lb. 120.00 - 140.00
Angelica seed oil, bots ..... lb. 120.00 - 130.00
Aniline dms., c.l., frt. alld ..... lb. .20 - —
dms., l.c.l., frt. alld ..... lb. .21 - —
tanks, frt. alld. ..... lb. .18 - —
Aniline oil (see Aniline).
Aniline salt, dms., c.l., t.l., 20,000 lbs. min., frt. alld lb. .33 - —
dms., l.c.l., same basis ..... lb. .35 - —
Anise oil, USP, dms ..... lb 1.75 - 3.00
Anise seed, Mexican, bgs ..... lb. .24 - —
Spanish, bgs ..... lb. .24 - —
Anisic aldehyde, dms ..... lb 1.50 - 2.20
o-Anisidine, dms., c.l., frt. alld lb. .80 - —
dms., l.c.l., same basis ..... lb. .82 - —
tanks, same basis ..... lb. .78 - —
p-Anisidine, dms., works ..... lb. .97 - —
Anthracene, 90-95%, dms., c.l., t.l. f.o.b., works lb. .42½- —
dms., l.c.l., minimum shipment 1,000 lbs., same basis lb. .45 - —
Anthranilic acid, 99%, 150-lb. dms., dlvd lb. 1.15 - —
Anthraquinone, 99.5%, bgs., c.l., frt. alld lb. .70 - —
bbls., l.c.l., same basis ... lb. .73 - —
Electrical grade, bgs., l.c.l., same basis lb. 1.10 - —
Antimony butter (see Antimony trichloride).
Antimony metal, bulk, c.l., mines, lb. .29 - —
cs., c.l., mines ..... lb. .29½- —
Antimony oxide, bgs., c.l., frt. alld, lb. .26½- —
bgs., l.c.l., frt. alld. ..... lb. .28 - —
Prices of antimony oxide are 2% higher west of the Rockies.
Antimony sulfide, approx. 65%, bgs., 10,000-lb. lots, dlvd lb. .23 - —
bgs., smaller lots, dlvd lb. .24 - .26
Antimony trichloride, anhyd., solid, pails, c.l., works lb. .41 - —
pails, l.c.l., works lb. .43 - —
Antimony-potassium tartrate, tech., powd., 250-lb., dm., f.o.b. works, E lb. .69½- —
USP, powd., 250-lb. dm., same basis lb. .74½- —
Apomorphine hydrochloride, USP, bots., 25-oz. lots oz. 35.60 - —
Apricot kernel oil, USP, dms lb. .55 - .70
Arabic gum, amber sorts, 10 bgs, lb. .27 - —
USP, powd., bbls ..... lb. .31 - .34
Areca nuts, powd., bbls. ..... lb. .13 - —
Arecoline hydrobromide, NF, bots., tins, 100 oz. or more oz. 4.00 - —
l-Arginine, free base, dms., 10-kilo lots or more kilo. 90.00 - —
l-Arginine glutamate, dms., 10-kilo lots or more kilo. 60.00 - —
l-Arginine monohydrochloride, dms., 10-kilo lots or more kilo. 60.00 - —
Arnica flowers (true Montana), bls. lb. .75 - —
Aromatic petroleum solvents (see Solvent Naphtha, petroleum, aromatic).
Arsenic, crude (95%), bulk, c.l., works lb. .016 - —
bbls., c.l., works ..... lb. .0.31 - —
Arsenic trioxide, NF, powd., dms., 300-lbs., f.o.b. works lb. .48 - —
Arsenic, white, powd., bbls., c.l., works lb. .04½- —
bbls., l.c.l., works ..... lb. .06½- .07½
Arsenous acid, tech. (see Arsenic, white).
Arsenous acid, USP (see Arsenic trioxide).
Arylid maroons, deep shades, bbls. lb. 3.70 - —
Light shades, bbls. ..... lb. 2.85 - —
Asafetida gum, cns ..... lb. .36 - .40
Powd., bbls., dms ..... lb. .75 - .80
Asbestine (see Talc, fibrous, New York).
Asbestos, Canadian crude
6D, c.l. (30 tons), mines ton. 86.00 - —
7D, c.l. (30 tons), mines ton. 75.00 - —
7F, c.l. (30 tons), mines ton. 71.00 - —
7H, c.l. (30 tons), mines ton. 61.00 - —
7K, c.l. (30 tons), mines ton. 50.00 - —
7M, c.l. (30 tons), mines ton. 44.00 - —
7R, c.l. (30 tons), mines ton. 43.00 - —
7RF, c.l. (30 tons), mines ton. 44.00 - —
7T, c.l. (30 tons), mines ton. 41.00 - —
7TF, c.l. (30 tons) mines ton. 44.00 - —
Asbestos prices are in Canadian funds; l.c.l. lots $4 per ton higher.
Ascorbic acid, USP, dms., 100-kilos. kilo. 7.35 - —
dms., less than 100-kilos ... kilo. 7.75 - —
Ash, black (see Barium sulfide).
Asphalt, gilsonite, black jet, bgs., c.l., mines ton. 43.50 - —
ex-whse, 5 tons or more, N. Y., N. J ton. 89.50 - —
select, brilliant black; 340°-360°F. fusing pt., bgs., c.l., mines, ton. 46.00 - —
270°-295°F. fusing pt., bgs., c.l., mines ton. 43.00 - —
Asphalt, petroleum, cut-back, tanks, tankwagon, refy ..... gal. .09½- —
emulsion, tanks, tankwagon, refy. gal. .09½- —
steam-refd., 50-80 penetration, tanks, tankwagon, refy. ton. 21.00 - —
85-300 penetration, tanks, tankwagon, refy ton. 20.00 - —
Aspirin (see Acetylsalicylic Acid).
Atropine, NF, tins ..... oz. 5.75 - 7.50
Atropine sulfate USP, bots ..... oz. 5.25 - 5.75
Azelaic acid, bgs., c.l., dlvd. ..... lb. .40 - —
bgs., ton lots, same basis ..... lb. .41 - —

B

Bacitracin, bulk, 1,000,000,000 or more units 50,000 units. .65 - —
less than 1,000,000,000 units. 50,000 units. .70 - —
Balm of Gilead buds, dried, bgs lb. 1.25 - 1.35
Barberry root bark, bgs ..... lb. 1.00 - 1.10
Barbital, NF, 100-lb. dms., f.o.b. works lb. 4.50 - —
Barbital sodium, NF, 100-lb. dms. lb. 4.75 - —
Barium carbonate, precip., bgs., c.l., works ton. 111.50 - —
bgs., smaller lots, works ton. 126.50 - —
Barium chlorate, dms., works lb. .32 - .41
Barium chloride, anhyd., bgs., c.l., works ton. 176.00 - —
bgs., l.c.l., works ton. 196.00 - —
NF, cryst., dms., 400-lbs., works lb. .23 - —
Tech., cryst., bgs., c.l., works, 100 lbs. 7.00 - —
bgs., l.c.l., works 100 lbs. 8.00 - —
Barium chromate, bgs., frt. equald. lb. .38 - —
Barium dioxide (see Barium peroxide).
Barium hydrate, cryst., bgs., c.l., t.l., frt. equald ton. 208.00 - —
bgs., l.c.l., t.l., frt. equald ton. 218.00 - —
Barium monohydrate, 99%, bgs., c.l., frt. equald. 100 lbs. 11.25 - —
bgs., l.c.l., frt. equald. 100 lbs. 11.75 - —
Barium monoxide (see Barium oxide).
Barium nitrate, bbls., c.l., t.l., dlvd. lb. .16 - —
bbls., l.c.l., l.t.l., dlvd. ..... lb. .17 - —
Barium oxide, grd., dms., c.l., t.l., frt equald ton. 275.00 - —
dms., l.c.l., l.t.l., frt. equald ton. 285.00 - —
Barium peroxide, dms., frt. equald. lb .20 - —
Barium stearate, ctns., c.l., frt. alld. lb. .41 - —
ctns., l.c.l. same basis ..... lb. .42 - .46
Barium sulfate, tech. (see Barytes and blanc fixe).
Barium sulfate, X-ray, 100-lb. dm. lb. .19½- —
Barium sulfide, dms., c.l., works. ton. 100.00 - —
dms., l.c.l., works ..... ton. 110.00 - —
Barytes, southern, off-color, bgs., mines ton. 30.00 - —
95-75%, bgs., mines ton. 30.00 - —
white, water-grd., paper bgs., c.l., St. Louis ton. 60.00 - 60.25
paper bgs., ex whse., New York ton. 84.85 - —
Battery acid, cbys., c.l., works E. 100 lbs 2.35 - —
cbys, l.c.l., works, E ..... 100 lbs 2.65 - 10.95
Bauxite, bulk, mines ..... ton. 7.00 - 10.00
Bay oil, NF, Puerto Rican; 50-55%, cns lb. 2.40 - 2.70
55-60%, cns. ..... lb. 2.55 - —
NF, West Indian, 50-55%, cns. dms lb. 2.50 - —
Bayberry wax, bgs ..... lb. .65 - .70
Beeswax, crude, African, bgs ... lb. .54 - .55
Brazilian, bgs. ..... lb. .56 - .57
Central American, bgs ..... lb. .53 - —
Chilean, bgs. ..... lb. .56 - .57
Refd., USP, bleached white, bricks, 100-lb. ctns lb. .67 - .69
white, slabs, 100-lb. ctns . lb. .66 - .68
yellow, bricks, 100-lb. ctns lb .59 - .61
yellow, slabs, 100-lb. ctns lb. .58 - .60
Belladonna leaf, bls. ..... lb. .24 - .26
Belladonna root, bls. ..... lb. .28 - .35
Bentonite, dom. 200 mesh, bgs., c.l., mines ton. 14.00 - —
Imp. Italian, white, high gel., bgs., 5-ton lots, ex whse ton. 95.20 - —
bgs., 1-ton lots, ex whse ton. 99.00 - —
Imp. Italian, white, low gel., bgs., 5-ton lots, ex whse ton. 93.40 - —
bgs., 1-ton lots, ex whse ton. 97.16 - —
Benzal chloride, cbys., works lb. .44 - —
Benzaldehyde, NF, dms ..... lb. .80 - 1.05
Tech., dms., c.l., t.l. ..... lb. .47 - —
dms., l.c.l. ..... lb. .48 - —
Benzene, pure or nitration, tanks, works:
Bethlehem, Pa gal. .34 - —
Birmingham district gal. .34 - —
Chicago district ... gal. .34 - —
Cleveland district ... gal. .34 - —
Geneva, Utah ..... gal. .34 - —
Houston, Tex. ..... gal. .34 - .40
Johnstown, Pa ..... gal. .34 - —
Benzene, pure or nitration, tanks, works:
Lorain, Ohio ..... gal. .34 - —
Middletown, Ohio .... gal. .34 - —
Mennequa, Colo. .... gal. .34 - —
Philadelphia district .. gal. .34 - —
Pittsburgh district ... gal. .34 - —
Port Arthur, Tex. ... gal. .34 - —
St. Louis, Mo. District gal. .34 - —
Syracuse, N. Y. ..... gal. .34 - —
Terre Haute, Ind. .... gal. .34 - —
Youngstown, Ohio .... gal. .34 - —
Lackawanna, N. Y. ... gal. .34 - —
Lone Star, Tex ..... gal. .34 - —
Benzene hexachloride, 25% and 99% gamma isomer (see Lindane).
Benzene hexachloride, tech., high gamma, bgs., c.l., t.l., consignment, dlvd. gamma-unit. .0075 —
bgs., c.l., t.l., direct sale, f.o.b. works gamma-unit. .0065- —
Tech., low gamma, bgs., c.l., t.l., consignment, dlvd gamma-unit. .0075- —
bgs., c.l., t.l., direct sale, f.o.b. works gamma-unit. .0056- —
Benzidine hydrochloride, bbls., c.l., frt. alld., 100% basis lb. 1.19 - —
bbls., l.c.l., same basis ..... lb. 1.21 - —
Benzidine sulfate, tech., bbls., frt. alld., 100% basis lb 1.21 - —
Benzidine yellow, AAA, bbls., dlvd. lb 2.20 - —
AAOT, bbls., dlvd. ..... lb. 2.55 - —
Lightfast, bbls., dlvd. ..... lb. 3.40 - —
Benzocaine, dms., 100-lbs., frt alld. lb. 3.25 - —
Benzoic acid, tech., dms., c.l., t.l., frt. alld lb. .25 - .37
dms., l.t.l., same basis ..... lb. .29 - .41
tanks, same basis ..... lb. .21 - —
USP, bbls., dms., ton lots lb. .48 - —
bbls., dms., 1,000-lb lots lb. .50 - —

BENZOL

Benzol quotations, both coaltar and petroleum, may be found under Benzene.

Benzoin gum, Sumatra, cs. ..... lb. .32 - —
Benzophenone, dms. ..... lb. 1.40 - 1.65
Benzotriazole, tech., dms., 1,000-lb. lots, works lb 2.25 - —
Benzotrichloride, cbys., 1,000-lb. lots or more, frt. equald. lb. .21 - —
cbys., smaller lots, frt. equald lb. .23 - —
Benzoyl chloride, cbys., dms., c.l., works, frt. equald lb .22 - —
cbys., l.c.l., same basis lb .23 - —
tanktrucks, dlvd. Metropolitan area lb. .21 - —
Benzoyl peroxide, purif., fib. dms., 50 to 1,000-lb lots, works lb. .98 - 1.08
Benzyl acetate, f.f.c., cns., dms lb. .54 - —
Benzyl alcohol, NF, dms. ..... lb. .54 - —
Tech., dms., dlvd ..... lb. .47½- .65
Benzyl benzoate, USP, 40-lb. dms lb. .64 - —
Benzyl chloride, tech., cbys., dms., c.l., works, frt. equald lb. .22½- .25½
cbys., dms., l.c.l., same basis lb. .23½- .25½
tanktrucks, dlvd. Metropolitan area lb. .21 - —

A 2½c. differential is quoted on benzyl chloride in 5-gal. cbys. In steel dms. prices are ½c. lower.

Benzyl cinnamate, cns. ..... lb 3.30 - 3.60
N-Benzyl-N,N-dimethylamine, 50 dms., frt. alld lb. 1.25 - —
12-49 dms., same basis ..... lb. 1.35 - —
1-11 dms., same basis ..... lb 1.90 - —
Benzyl formate, cns. ..... lb. 1.85 - 2.10
Benzyl isoeugenol, cns ..... lb 9.25 - —
Benzyl propionate, bots. ..... lb. 1.35 - 1.65
Benzyl salicylate, bots ..... lb. 1.50 - 1.85
Benzylidine acetone, bots. ..... lb. 1.75 - 1.80
Benzylidine chloride (see Benzal chloride).
Berberine bisulfate, cns ..... lb 56.50 - —
Berberine hydrochloride, bots ... lb. 56.50 - —
Bergamot oil, nat., NF, Italian, cns. lb. 11.00 - 12.00
Betagammapicoline (see b.g-Picoline).
Betahydroxynaphthoic acid (see b-Oxynaphthoic acid).
Betamethylnaphthalene (see Methylnaphthalene).
Betanaphthol (see b-Naphthol).
Betanaphthylamine (see b-Naphtholamine).
Betaoxynaphthoic acid (see b-Oxynaphthoic acid).
Betaphenylethylamine (see b-Phenylethylamine).
BHC (see Benzene hexachloride, tech.).
Biotin, cryst., bots ..... gram. 10.00 - —
Biphenyl (see Diphenyl).
Birchtar oil, crude, cns ..... lb 1.50 - 1.90
Rectified, cns. ..... lb 1.75 - 2.00
Bismuth chloride, jars ..... lb 5.11 - —
Bismuth hydroxide, dms ..... lb 4.60 - 4.65
Bismuth metal, bxs., ton lots .... lb. 2.25 - —
Bismuth nitrate, cryst., 250-lb. dm. lb. 2.25 - —
Bismuth oxychloride, 25-lb. dm., f.o.b. works lb 4.42 - —
Bismuth subcarbonate, USP, 150-lb. dm lb 3.70 - —
Bismuth subgallate, NF, 200-lb. dm., f.o.b. works lb 4.43 - —
Bismuth subiodide, fib dms lb. 5.37 - —
Bismuth subnitrate, NF, 200-lb. dm., f.o.b. works lb. 3.15 - —
Bismuth subsalicylate, USP, 100-lb. dm., f.o.b. works lb. 4.25 - —
Bismuth trioxide, 100-lb. dms., f.o.b. works lb. 4.40 - —
Bismuth-ammonium citrate, USP, powd., jars lb. 4.22 - —
Bisphenol-A, bgs., c.l., t.l., single shipt., 70,000-lbs. or more, frt. alld lb. .29½- —
bgs., c.l., t.l., less than 70,000 lbs., same basis lb. .30 - —
bgs., l.c.l., same basis ..... lb. .31 - —
Blackberry root bark, bls..... lb. .50 - .55

BLACK PIGMENTS

Black pigment quotations are listed individually. For example, prices on Black, acetylene, may be found in the A's under Acetylene black.

Blanc fixe, direct process, bgs., c.l., works ton. 160.00 - —
bgs., l.c.l., works ..... ton. 170.00 - —
bgs., l.c.l., New York whse ton. 215.00 - —
Blood, dried, 16-16½% ammonia, bgs., New York unit-ton. 5.50 - —
Bloodroot, bls. ..... lb. .85 - .90

BLUE PIGMENTS

Blue pigment quotations are listed individually. For example, prices on Blue, ultramarine, may be found in the U's under Ultramarine blue.

Blue dyes (see Dyes).
Blue vitriol (see Copper sulfate)
Bois de rose oil, Brazilian, dms. lb. 2.05 - —
Peruvian, dms. ..... lb. 1.65 - —
BON acid maroons, pure, bbls lb. 1.75 - —
Resinated, bbls. lb. 1.50 - —
Bone black, dms., c.l., frt. alld lb. .1750- .2225
l.c.l., works ..... lb. .1950- .2425
Pacific coast bone black prices 3¼c. per lb. higher.
Bonemeal, steamed, works, E ton. 80.00 - —
Bone phosphate, defluorinated of lime (see Defluorinated phosphate).
Bone phosphate, precip. (see Calcium phosphate, tribasic).
Borax, tech., anhyd., 99½%, bgs., c.l., works ton. 92.00 - —
bgs., ton lots, ex whse, New York or Chicago 100 lbs. 7.42 - —
bgs., smaller lots, same basis 100 lbs. 8.67 - 10.67
bulk, c.l., works ..... ton. 83.00 - —
Borax, tech., gran., decahydrate, 99½%, bgs., c.l., works. ton. 50.00 - —
bgs., ton lots, ex whse, New York or Chicago 100 lbs. 5.32 - —
bgs., smaller lots, same basis 100 lbs. 6.57 - 8.57
bulk, c.l., works ..... ton. 43.50 - —
pentahydrate, 99½%, bgs., c.l., works ton. 64.50 - —
bgs., ton lots, ex whse, New York or Chicago 100 lbs. 6.05 - —
bgs., smaller lots, same basis 100 lbs. 7.30 - 9.30
bulk, c.l., works ..... ton. 58.00 - —
USP, powd., bgs., c.l., works. ton. 54.00 - —
bgs., ton lots, ex whse, New York or Chicago 100 lbs. 6.45 - —
bgs., smaller lots, same basis. 100 lbs. 7.70 - 9.70
Bordeaux powder, tribasic, bgs., c.l., dlvd lb. .24 - —
bgs., l.c.l., same basis ... lb. .26 - —
Boric acid, tech., anhyd., 99.9%, bgs., c.l., works ton. 335.00 - —
bgs., ton lots, ex whse, New York or Chicago 100 lbs. 19.62 - —
bgs., smaller lots, same basis. 100 lbs. 20.87 - 22.87
cryst., 99.9%, bgs., c.l., works. ton. 163.50 - —
bgs., ton lots, ex whse, New York or Chicago 100 lbs. 11.05 - —
bgs., smaller lots, same basis. 100 lbs. 12.30 - 14.30
Boric acid, tech., cryst., 99.9%, dms., c.l., works ton. 188.50 - —
dms., ton lots, ex whse., New York or Chicago 100 lbs. 12.30 - —
bgs., smaller lots, same basis 100 lbs. 13.05 - —
Boric acid, gran., 99.9%, bgs., c.l., works ton. 112.00 - —
bgs., ton lots, ex whse, New York or Chicago 100 lbs. 8.47 - —
bgs., smaller lots, same basis. ton. 174.25 - —
dms., c.l., works ton. 137.00 - —
dms., ton lots, ex whse, New York or Chicago 100 lbs. 9.72 - —
dms., smaller lots, same basis 100 lbs. 10.47 - —
bulk, c.l., works ..... ton. 106.00 - —
powd., bgs., ton lots, ex whse., New York or Chicago. 100 lbs. 8.85 - —
bgs., smaller lots, same basis 100 lbs. 10.10 - 12.10
Boric acid, powd., dms., smaller lots, same basis 100 lbs. 11.45 - —
USP boric acid $25 per ton higher in bags.
Borneol, cns. ..... lb. 2.75 - —
Boron trichloride, CP, 1,800-lb. cyls., works lb. 1.25 - —
100-lb. cyls., works ..... lb. 1.70 - —
Boron trifluoride, gas, cyls., t.l., works lb. .70 - —
cyls., l.t.l., works ..... lb. .70 - —
Brimstone (see Sulfur).
Broenner's acid, bbls ..... lb. 1.53 - —
Bromine, purif., cs., c.l., t.l., dlvd. E of Rockies lb. .32 - —
cs., l.c.l., same basis ..... lb. .34 - .39
ret. dms., c.l., t.l., dlvd. E. of Rockies lb. .31 - —
ret. dms., l.c.l., same basis lb. .31 - .34
tanks, same basis ..... lb. .21½- —
Bromochloromethane, dms., c.l., frt. equald lb. .48 - —
dms., l.c.l., same basis ..... lb. .50 - —
tanks, same basis ..... lb. .47 - —
Bromoform, pharmaceutical grade, 100-lb. cbys. lb. 1.80 - 1.90
Bromstyrol, bots. ..... lb. 5.35 - 5.70
Brucine, cns ..... oz. Nominal.
Brucine sulfate, NF, cns. ..... 1.45 - 1.75
Buchu leaves, bbls ..... lb. .65 - .70

BROWN PIGMENTS

Brown pigment quotations are listed individually. For example, prices on Brown, Iron oxide, may be found in the I's under Iron oxide brown.

Butadiene, refd. cyls., c.l., refy. lb. .21 - —
cyls., l.c.l., refy. ..... lb. .22 - —
tanks, dlvd. ..... lb. .14½- —
Butene-1, tanks, works ..... lb. .0625- —
Butene-2, tanks, works ..... lb. .0570- —
n-Butyl acetate, ferment, dms., c.l., frt. alld lb. .17 - —
dms., l.c.l., same basis ..... lb. .18½- —
tanks, same basis ..... lb. .14½- —
Syn., dms., c.l., dlvd. E lb. .17 - —
dms., l.c.l., same basis ..... lb. .18½- —
tanks, same basis ..... lb. .14½- —
sec-Butyl acetate, syn., dms., c.l., dlvd. E lb. .14¾- —
dms., l.c.l., same basis ... lb. .16¼- —
tanks, same basis ..... lb. .12¼- —
n-Butyl acrylate, dms., c.l. or t.l., straight or mixed frt. alld. E lb. .42½- —
dms., l.t.l. same basis ..... lb. .43½- —
tanks, same basis ..... lb. .40 - —
Prices of n-Butyl acrylate are 1c. per lb. higher in Ariz., Calif., Idaho, Nev., Ore., Utah and Wash
n-Butyl alcohol, ferment, dms., c.l., frt. alld lb. .18 - —
dms., l.c.l. frt. alld ..... lb. .19½- —
tanks, frt. alld. ..... lb. .15½- —
n-Butyl alcohol, syn., dms., c.l., dlvd lb. .18 - —
dms., l.c.l., frt. alld lb. .19½- —
tanks, dlvd ..... lb. .15½- —
Sec-synthetic, dms., c.l., dlvd lb. .15 - —
dms., l.c.l., dlvd. ..... lb. .16½- —
tanks, dlvd ..... lb. .12½- —
n-Butyl alcohol, tert-synthetic, dms., c.l., frt. alld., dlvd E lb. .16 - —
dms., l.c.l., same basis ... lb. .17½- —
tanks, same basis ..... lb. .13½- —
Butyl aldehyde (see Butyraldehyde).
Butyl chloride, dms., c.l., works lb. .37½- —
dms., l.c.l., works ..... lb. .38¼- —
n-Butyl ether, dms., c.l., works lb. .35¼- —
dms., l.c.l., works ..... lb. .36 - —
tanks, works ..... lb. .33¼- —
Butyl lactate, dms., c.l., frt. alld. E. Rockies lb. .42½- —
dms., l.c.l., same basis ..... lb. .43½- —
tanks, same basis ..... lb. .40 - —
Butyl laurate, dms., works ..... lb. .37½- —
Butyl methacrylate, dms., c.l., t.l., works lb. .55 - —
dms., l.c.l., works .... lb. .55½- —
Butyl oleate, refd., dms., l.c.l., works lb. .32 - —
Butyl phenylacetate, dms. lb. 4.50 - 4.60
Butyl phthalate (see Dibutyl phthalate).
Butyl stearate, dms., c.l., frt. alld. E. of Rockies lb. .27¼- —
dms., l.c.l., same basis ... lb. .28¼- —
Butylamine (see Mono-, Di- and Tributylamine).
tert-Butylamine, dms., c.l., t.l., f.o.b. works lb. .47 - —
dms., l.c.l., same basis ..... lb. .47½- —
tc., t.t., same basis ..... lb. .45 - —
Butylated hydroxyanisole, food grade, dms., dlvd. lb. 4.75 - —
6-tert-Butyl-m-cresol (see Mono-tert-butyl-m-cresol).
Butylated hydroxytoluene (see 2,6-Di-tert-butyl-p-cresol).
1,3-Butylene glycol, dms., c.l., t.l., dlvd lb. .20½- —
dms., l.c.l., l.t.l., f.o.b. works lb. .22 - —
tanks, dlvd ..... lb. .18 - —
p-tert-Butylphenol, bgs., c.l., dlvd., lb. .27½- —
bgs., l.c.l., works ..... lb. .28½- —
Butyraldehyde, dms., c.l., dlvd lb. .22 - —
dms., l.c.l., dlvd. ..... lb. .23½- —
tanks, dlvd. ..... lb. .19½- —
Butyric acid, 99%, dms., c.l., frt. equald lb. .34 - —
dms., l.c.l., same basis .... lb. .34½- —
tanks, same basis ..... lb. .32½- —
Butyric ether (see Ethyl butyrate).
Butyrolactone, dms., c.l., t.l., works. lb. .40 - —
dms., l.c.l. same basis ... lb. .43 - —
n-Butyronitrile, dms., c.l., dlvd lb. .56½- —
dms., l.c.l., dlvd. ..... lb. .57½- —
tanks, dlvd. ..... lb. .54 - —

C

Cacao butter (see Cocoa butter).
Cadmium CP red dark shade, bbls., frt. alld. E. of Rockies lb. 5.55 - —
Light shade, bbls., same basis lb. 4.65 - —
medium shade, bbls., same basis, lb. 5.30 - —
Medium light shade, bbls., same basis lb. 4.90 - —
Orange-red shade, bbls., same basis lb. 4.30 - —
Yellow, all shades, bbls., frt. alld. E. of Rockies lb. 2.85 - —
Cadmium iodide, 25-lb fib. dms lb. 6.75 - 7.00
Cadmium metal, ingots or sticks, ton lots, cs., dlvd lb. 1.30 - —
Cadmium-mercury lithopone orange, deep shade, bbls., frt. alld E. of Rockies lb. 1.65 - —
Cadmium-mercury lithopone red, dark shade, bbls., same basis lb. 1.95 - —
Red, light shade, bbls., same basis, lb. 1.72 - —
Red, medium shade, bbls., same basis lb. 1.87 - —
Red, medium light shade, bbls., same basis lb. 1.80 - —
Red, maroon shade, bbls., same basis lb. 2.03 - —
Cadmium-selenide lithopone maroon, bbls., frt. alld E. of Rockies lb. 2.76 - —
Orange, bbls., same basis .... lb. 1.58 - —
Cadmium-selenide lithopone red, orange-red shade, bbls., same basis lb. 1.72 - —
Red, dark shade, bbls., same basis, lb. 2.56 - —
Red, light shade, bbls., same basis, lb. 1.88 - —
Red, medium shade, bbls., same basis lb. 2.00 - —
Red, medium-light shade, bbls., same basis lb. 2.23 - —
Cadmium-selenide, lithopone, yellow, all shades, bbls., frt. alld. E of Rockies lb. 1.19 - —
Caffeine, NF, citrated, dms., 100-lb. lots or more lb. 2.70 - —
USP, nat., cryst., anhyd., dms., 100-lb. lots or more .... lb. 2.10 - —

Caffeine, USP, nat., cryst., hydrous, dms., 100-lb. lots or more.	lb.	1.96	—
USP, syn., anhyd., dms., 100-lb. lots or more	lb.	2.10	—
cryst., hydrous, dms., 100-lb. lots or more	lb.	1.96	—
Cajuput oil, native, cns.	lb.	1.75	2.00
Redist., USP, cns.	lb.	1.90	2.10
Calamine, USP, dms.	lb.	.34	—
Calamus oil, bots.	lb.	12.00	20.00
Calciferol, cryst., 10-kilo or more lots, works	gram.	.54	—
1-10 kilo lots	gram.	.55	—
Calciferol, in edible oil (see Viosterol).			
Calcium p-aminosalicylate trihydrate, fib, dms., 100 lbs. or more, frt. adjusted	lb.	3.10	—
Calcium arsenate, dealers, bgs., c.l., frt. alld	lb.	.09	.09¼
bgs., l.c.l., same basis	lb.	.10	.10½
Calcium bromide, NF, jars, 100 lbs. or more	lb.	.97	—
Calcium carbide, standard generator size, 600-lb. dms., c.l., dlvd	ton.	149.00	—
Calcium carbonate, nat., dry-grd., air floated, 325 mesh, bgs., c.l., works	ton.	10.50	—
Calcium carbonate, chalk, whiting, 325 mesh, bgs., c.l., works.	ton.	32.00	34.00
water-grd., ½ to 10 microns, bgs., c.l., works	ton.	30.00	—
10 to 20 microns, bgs., c.l., works	ton.	17.00	18.00
precip., dense, bgs., c.l., works.	ton.	30.00	38.50
bgs., l.c.l., works	ton.	45.00	53.50
medium, bgs., c.l., works	ton.	38.00	—
bgs., l.c.l., works	ton.	48.00	53.00
Calcium Carbonate, surface treated, bgs., c.l., works	ton.	42.00	44.00
bgs., l.c.l., works	ton.	57.00	59.00
ultrafine, bgs., c.l., works.	ton.	117.50	167.50
bgs., l.c.l., works	ton.	137.50	187.50
Calcium chloride, conc., flake or pellet 94-97%, paper bgs., c.l., works, frt. equald.	ton.	39.30	—
Flake, 77-80%, paper bgs., c.l., works, frt. equald	ton.	32.00	—
Liquor, 40%, tanks, frt. equald.	ton.	12.50	—
Powd., 77% min., paper bgs., c.l., works, frt equald	ton.	37.00	—
Purif., gran., dms.	lb.	.27	—
Calcium chloride, solid, 73-75%, dms., c.l., frt. equald	ton.	29.50	—
dms., l.c.l. works, frt. equald.	ton.	36.00	73.00
USP, gran., dms.	lb.	.32	—
Calcium chromate, bgs., dlvd	lb.	.37	—
Calcium cyanide dms., c.l., dlvd. E. of Rockies	lb.	.20	—
dms., l.c.l. same basis	lb.	.24	.55
Calcium cyclamate, 100-lb. dms	lb.	1.95	—
Calcium gluconate, USP, A/A grade, 100-lb. dm., ton	lb.	.73½	—
USP, powd., 100-lb. dm., ton	lb.	.66½	—
Calcium hydride, lump, dms., works.	lb.	2.20	3.00
Calcium hypochlorite, high test, gran., 45-lb. cs., dlvd. E. of Rockies	cs.	23.85	25.60
100-lb. dms., same basis	dm.	33.30	36.55
Calcium hypophosphite, dms., 1,000-lb. lots	lb.	1.28	—
Calcium iodide, jars	lb.	4.52	—
Calcium lactate, NF, dms., f.o.b. works	lb.	.43	.46
Calcium mandelate, USP, 150-lb. dm., works	lb.	3.25	—
Calcium naphthenate, liq., 4% Ca., dms., frt equald	lb.	.30	—
Calcium pantothenate, USP, jars, 1 kilo or more	kilo.	35.00	—
Calcium para-aminosalicylate (see Calcium p-aminosalicylate).			
Calcium phenosulfonate, dms.	lb.	1.24	1.25
Calcium phosphate, dibasic, USP, bgs., c.l., frt. equald. 100 lbs.		16.00	—
Dibasic, feed grade, 18½% P, bgs., c.l., t.l., frt. equald	ton.	86.00	—
bgs., c.l., t.l., f.o.b. Texas City works	ton.	80.50	—
bgs., l.c.l., frt. equald.	ton.	96.00	—
Dibasic, feed grade, 21% P., bgs., c.l., t.l., frt. equald	ton.	97.65	—
bgs., l.c.l., frt. equald.	ton.	107.65	—
Prices of calcium phosphate dibasic in bulk $3 per ton less than bgs., c.l., prices.			
Calcium phosphate, monobasic, bgs., 10,000-lb. lots, frt. equald. 100 lbs.		7.45	—
bgs., smaller lots, same basis. 100 lbs.		7.95	—
Tribasic, NF, precip., bgs., c.l., works, frt. equald. 100 lbs.		9.25	—
bgs., l.c.l., frt. equald. 100 lbs.		10.00	—
Calcium propionate, any quantity, dms., dlvd. E. of Rockies.	lb.	.34½	—
Prices W. of Rockies 3c. per lb. more.			
Calcium phytate, bgs., 50 lbs. or more, f.o.b. warehouse N. Y.	lb.	.39	—
Calcium resinate, precip., dms., ton lots, frt. alld., works	lb.	.40¼	—
Calcium silicate, hydrated, bgs., c.l., works	lb.	.06	—
bgs., l.c.l., works	lb.	.06½	—
Calcium silicate paint grade (see Wollastonite).			
Calcium stearate, ctns., c.l.	lb.	.39	—
ctns., l.c.l.	lb.	.40	.44
Calomel, NF mild, powd., dms., 100-lbs., f.o.b. works	lb.	4.32	—
NF, mild, precip., dms., 100-lbs., f.o.b works	lb.	5.67	—
Camphene, 46° m.p., dms. incl., c.l., works	lb.	.15	—
dms. incl., l.c.l., same basis	lb.	.16½	—
tanks, same basis	lb.	.12½	—
Camphene chlorinated, 67-69% (see Toxaphene).			
Camphor, monobromated, NF, dms., kgs	lb.	3.63	3.70
Nat., USP, powd., cs., 100-lb. lots.	lb.	.60	.65
tablets, 1-oz. cs.	lb.	.85	.90
Nat., USP, gran., bbls., 2,000-lb. lots	lb.	.59	—
Camphor, syn., tech., 1 bbl. or more.	lb.	.48	—
USP, gran., powd., bbls., 1,000-lb. lots	lb.	.60	—
bbls., smaller lots	lb.	.61	—
tablets, ctns., 1,000-lb. lots.	lb.	.85	—
ctns. 500-lb. lots	lb.	.86	—
ctns., smaller lots	lb.	.87	—
Camphor oil, sassafrassy, dms.	lb.	.35	.55
White, dms.	lb.	.26	.50
Cananga oil, native, cns.	lb.	5.00	6.50
Rectified, cns.	lb.	7.25	10.00
Candelilla wax, crude, bgs.	lb.	.55	.56
Refd., pure, bgs.	lb.	.60	.62
Powdered Candelilla wax 20 to 100 mesh, 8c. higher.			
Cantharides, Chinese, cs.	lb.	1.00	—
powd., bgs.	lb.	1.15	—
Russian, bgs.	lb.	2.00	2.15
powd., bgs.	lb.	2.15	2.30
Capric acid, dms.	lb.	.30¾	.33½
tanks	lb.	.28¼	—
Caprolactum monomer, bgs., c.l., t.l., f.o.b. works	lb.	.52	—
bgs., l.c.l., l.t.l., same basis	lb.	.57	—
tanks, same basis	lb.	.49	—
Capryl alcohol, 85% dms., c.l., t.l., works	lb.	.19	—
dms., l.t.l., same basis	lb.	.19½	—
tanks, frt. equald.	lb.	.16½	—
Sec., 92-99%, dms., c.l., f.o.b. works	lb.	.22	—
dms., l.c.l., f.o.b. works	lb.	.23	—
tanks, f.o.b. works	lb.	.19½	—
Caprylic acid, dms.	lb.	.30¾	.33¼
tanks	lb.	.28¼	—
Capsicum (see Pepper red).			
Capsicum oil (see Capsicum oleoresin).			
Capsicum oleoresin, NF, from dom. pepper, dms.	lb.	4.00	—
NF, from African pepper, dms.	lb.	4.50	—
Caraway oil, NF, dms.	lb.	3.15	3.75
Caraway seed, Danish, bgs.	lb.	.16	—
Dutch, bgs.	lb.	.21	—
Polish, bgs.	lb.	.17¼	—
Carbazole, 97%, bbls, ton lots, works	lb.	1.05	—
Carbon black, channel, rubber beads, bulk, c.l., works	lb.	.08	—
bgs., c.l., works	lb.	.08½	—
bgs., l.c.l., works	lb.	.16¼	—
Furnace, fast extruding, bgs., c.l., works	lb.	.06¾	—
ctns., l.c.l., whse.	lb.	.13½	—
Carbon black, high abrasion, bulk, c.l., works	lb.	.07¼	—
bgs., c.l., works	lb.	.07¾	—
bgs., l.c.l., dlvd. or whse.	lb.	.14½	—
high modulus, bgs., c.l., works.	lb.	.06¼	—
ctns., l.c.l., whse.	lb.	.13	—
semi-reinforcing, bgs., c.l., works	lb.	.05¾	—
bgs., ctns., l.c.l., whse.	lb.	.12½	—
pigment, high color beads, ctns., c.l., works	lb.	.78	—
ctns., l.c.l., dlvd. or whse.	lb.	.87	—
medium color, uncompressed, bgs., c.l., works	lb.	.14	—
bgs., l.c.l., dlvd. or whse.	lb.	.22½	—
Carbon dioxide, indust., wholesale, bulk, 30,000-2,999,999 lbs., dlvd. Metropolitan areas, E.	ton.	60.00	115.00
bulk, 3,000,000 lbs. or more, dlvd. Metropolitan areas, E.	ton.	55.00	—
Solid, bulk, wholesale, works	ton.	85.00	—
Carbon disulfide, 55-gal. dms., c.l., works, frt. equald to competitive points	lb.	.071	—
55-gal. dms., l.c.l., same basis	lb.	.086	.091
5-gal. dms., 30 dms. to c.l., same basis	lb.	.131	—
5-gal. dms., less than 30 dms., same basis	lb.	.161	—
tanks, dlvd.	lb.	.0520	—
Carbon tetrachloride, CP, consumers, dms., c.l., frt. alld.	lb.	.12¾	—
dms., l.c.l., frt. alld.	lb.	.15¼	—
Tech., consumers, dms., c.l., t.l., frt. alld	lb.	.11¾	—
dms., l.c.l., l.t.l., frt. alld	lb.	.14¼	—
tanks, frt. alld	lb.	.10¾	.11¼
Carboxymethyl cellulose (see CMC).			
Carbromal, NF, dms., 100-lb lots, works	lb.	4.00	4.25
dms., smaller lots, works	lb.	4.10	4.75
Cardamom oil, NF, bots.	lb.	39.00	42.00
Cardamom seed, bleached "A"	lb.	3.50	—
Bleached "B"	lb.	3.25	—
Decorticated Alleppey, cs.	lb.	2.15	—
Guatemala, cs.	lb.	3.05	—
Green, Alleppey, bgs.	lb.	2.15	—
Ceylon, bgs.	lb.	2.25	—
Carmine No. 40, NF, bulk, 100-lb. lots or more, dlvd.	lb.	16.80	—
bulk, smaller lots, dlvd.	lb.	16.90	17.30
Carnauba wax, chalky, bgs., ton lots	lb.	.72	.73
North Country, No. 2, crude, bgs., ton lots	lb.	.81	.83
refd., pure, ton lots	lb.	.87	.88
North Country, No. 3, Ceara, ton lots	lb.	.71	.72
North Country No. 3, Parnahyba, ton lots	lb.	.72	.73
No. 3, refd., pure, bgs., ton lots.	lb.	.80	.82
No. 1, Ceara, yellow, bgs., ton lots.	lb.	1.00	1.02
Parnahyba, yellow, bgs., ton lots	lb.	1.01	1.03
Powdered carnauba wax, 20 to 100 mesh 8c. per lb. higher.			
Carotene, tech., 1,350,000 A units per gram tins, 5-10 kilo lots, dlvd	gram.	.20½	—
in carrot oil, 5,000,000 to 8,000,000 A units per lb., dms., works	million units.	.12	—
USP, microcrystalline in oil, 400,000 A units per gram., dms., dlvd	million units.	.144	—
b-Carotene, in vegetable oil, semi-solid suspension, 400,000 A units per gram, cns	kilo.	57.60	—
b-Carotene, liquid in vegetable oil, 500,000 A units per gram, cns	kilo.	72.00	—
Pure, cryst., 1,600,000 to 1,670,000 A units per gram, cns.	kilo.	240.00	—
Carvol, bots.	lb.	5.00	5.40
Cascara sagrada bark, bulk	lb.	.32	—

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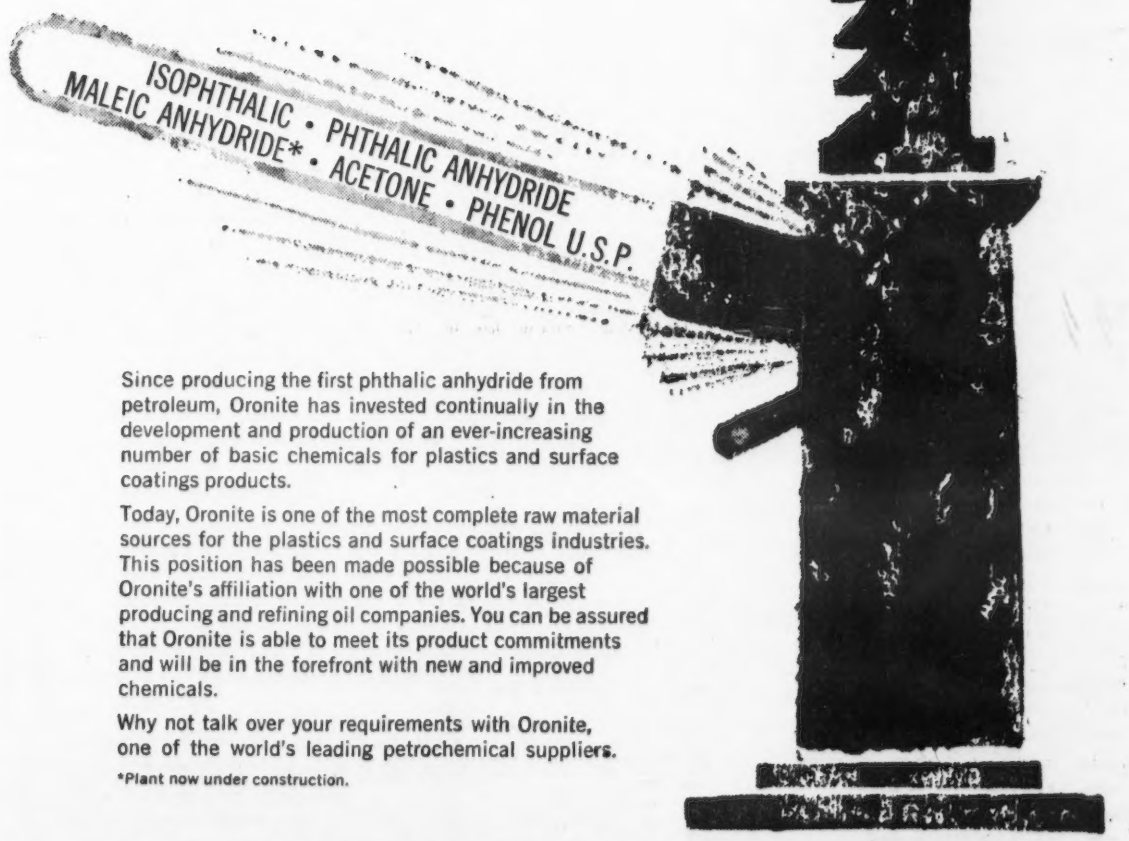

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Casein, dom., edible, acid precip., 30 mesh., bgs., 10,000-lb. lots or more, works ... lb. .56 • —
edible, acid, precip., 80 mesh, bgs., 10,000-lb. lots or more, works .. lb. .64 • —
Imp., inedible, acid-precip., grd., Argentine, bgs., c.l., ex-dock Eastern seaports.lb. .19 • .19½
Australian, bgs., c.l., same basis .. lb. .22¼- .22½
Cashewnut shell, liquid, treated, dms., c.l., Newark, N.J.lb. .24 • —
dms., ton lots, same basis ... lb. .25 • —
t.w., same basis ..... lb. .22½- —
Cassella acid, dms., frt. alld., 100% basis lb. 1.44 - 1.75
Cassia oil, redist., USP, cns. ..... lb. 7.50 - 9.00
Cassia, Padang, "A," bls. ..... lb. .30 • —
"B," bls. ..... lb. .31 • —
"C," bls. ..... lb. .28 • —
Korintje "A," bls. ..... lb. .34 • —
"B," bls. ..... lb. .30 • —
"C," bls. ..... lb. .30 • —
Castor oil, dom., blown, dms., c.l. lb. .2550- —
dms., l.c.l. lb. .2650- —
Castor oil, dom., dehydrated, bodied, dms., c.l. .lb. .2700- —
dms., l.c.l. ..... lb. .2850- —
tanks ..... lb. .2500- —
dehydrated, unbodied, dms., c.l. lb. .2500- —
dms., l.c.l. ..... lb. .2660- —
tanks ..... lb. .2360- —
hydrogenated, bgs., c.l. ..... lb. .2450- —
bgs., ton lots ..... lb. .2850- —
bgs., l.c.l., dlvd ..... lb. .3050- —
Castor oil, No. 1, dms., c.l. .... lb. .2150- —
dms., l.c.l. ..... lb. .2300- —
tanks ..... lb. .2000- —
No. 3, tech., dms., c.l. ..... lb. .2125- —
dms., c.l., ... lb. .2225- —
tanks ..... lb. .1925- —
Refd. deod. dms., c.l. ..... lb. .2650- —
dms., l.c.l. ..... lb. .2750- —
tanks ..... lb. .2450- —
USP, dms., c.l. ..... lb. .2350- —
dms., l.c.l. ..... lb. .2450- —
tanks ..... lb. .2150- —
Imported, No. 1, Braz., tanks . lb. .18¾- —
Sulfonated, 50%, dms., works . lb. .15 • .15½
75%, dms., works ..... lb. .19 • .19½
Castor oil acids, dehydrated, dms. lb. .44¼- .46¼
Split, dms. ..... lb. .37¼- .38¼
Castor pomace, bgs., c.l., works ton.35.00 • —
Castoreum nat., cns. ..... lb. 5.25 • —
Syn., cns. ..... lb. 9.00 • —
Catechol, CP, cryst., fib., dms., works .lb. 2.17½- —
Resub., dms., works ..... lb. 4.29½- —
Catnip leaves, Southern, bls. .... lb. Nominal.
Caustic potash (see Potash caustic).
Caustic soda (see Soda, caustic).
Cedarleaf oil, USP XIII cns., dms. lb. 3.25 - 3.50
Cedarwood oil, cns., dms. ..... lb. .70 - —
Celery seed, French, bgs. ..... lb. .37 • —
Indian, bgs. ..... lb. .19 • —
Cellulose acetate, flake, powd., bgs., t.l., dlvd. E lb. .36 • .51
Cellulose acetate-butyrate, powd., 17% butyryl content, bgs., dlvd. E lb. .545 - .555
27% butyryl content, bgs., dlvd. E lb. .595 - .605
38% butyryl content, bgs., dlvd. E. lb. .545 - .555
38% butyryl content, half-second, bgs., dlvd. E lb. .545 - .555
50% butyryl content, bgs., dlvd. E. lb. .585 - .595
Cellulose gum, methyl (see Methyl Cellulose).
Cellulose gum, pure, high vis., bgs., 23,000-lb. lots or more works, frt. alld. lb. .57 • —
bgs., smaller lots, same basis lb. .59 • —
Cerium hydrate 74% CeO, fib. dms., 100-lb. lots or more lb. 1.40 • —
77% CeO, fib. dms., 100-lb. lots or more lb. 1.74 • —
Cerium oxalate (see Rare earth oxalate)
Cerium oxide, optical grade, bgs., 50-lb. lots or more, dlvd. lb. 1.85 - 1.90
bgs., smaller lots, dlvd. ..... lb. 2.15 • —
Cetyl alcohol, NF, fib. cns., c.l., t.l., dlvd. E. lb. .41½- —
fib. cns., l.c.l., same basis. lb. .43½- —
tanks, same basis ..... lb. .39 • —
Extra, cns., c.l., t.l., dlvd. E. lb. .48½- —
fib. cns., l.c.l., same basis. lb. .50½- —
tanks, same basis ..... lb. .46 • —
Chalk (see Calcium carbonate).
Chamomile flowers, Hungarian, bls. .lb. .90 - 1.00
Roman, cs. ..... lb. 1.50 - 1.75
Chamomile oil, blue Hungarian, bots lb.350.00 • —
Charcoal, activated, NF, fib. dms., c.l., works lb. .25 • .32
fib. dms., 5-ton lots, works lb. .25½- .32½
fib. dms., smaller lots, works lb. .27 • .50
Charcoal, black (see Charcoal, activated).
Charcoal, bone (see Bone black).
Charcoal, hardwood, lump, bulk, c.l., f.o.b. plant ton.55.00 • —
briquets, bulk, c.l., f.o.b. plant ton.80.00 • —
5-lb. paper bgs., c.l., same basis ton.105.00 • —
20-lb. paper bgs., c.l., f.o.b. plant, ton.90.00 • —
40-lb. paper bgs. c.l., same basis ton 86.00 • —
Chenopodium oil, NF, cns ..... lb. 4.25 • 5.00
Chicago acid, paste, bbls., frt. alld. lb. 3.21 • —
Chinawood oil (see Tung oil).
Chloral, tech., 94% min., dms., c.l., works lb. .23 • —
dms., l.c.l., works ..... lb. .24 • —
tanks, multiple units, 5 cars, dms., l.c.l., works ..... lb. .21 • —
Chloral hydrate, USP, jars, 1,000-lb. lots. lb. 1.00 • —
jars, 500-lb. lots ..... lb. 1.03 • —
jars, 100-lb. lots or less .... lb. 1.05 • —
Chlordan, agricultural, dms., c.l., frt. alld lb. .65 • —
dms., l.c.l., 5,000-10,000-lb. lots, frt. alld lb. .66 • —
Chlordan, clarified, dms., c.l., frt. alld lb. .69 • —
dms., l.c.l., 5,000-10,000-lb. lots, frt alld lb. .70 • —
Chlorinated paraffin, 40%., dms., c.l., frt. alld. lb. .15 • —
dms., l.c.l., 10 dms or more, same basis lb. .16 • —
70%. dms., c.l., same basis lb. .18½- —
dms., l.c.l., 10 dms. or more, same basis lb. .19½- —
Chlorinated rubber, 5, 10, 20 cps., ctns., c.l., works lb. .60 • —
ctns., l.c.l. works ..... lb. .61 • —
125 cps., ctns., c.l., works..... lb. .70 • —
300 cps., ctns., c.l., works ..... lb. .80 • —

Chlorine, liq., cyls., c.l., works, frt. equald..lb. .11 • —
cyls., l.c.l., Metropolitan area lb. .12½- .13¾
tanks, single units, works, frt. equald..100 lbs. 3.25 • —
tanks, multiple units, 5 cars, works, frt. equald 100 lbs. 4.15 • —
tanks, multiple units, 4 cars, same basis..100 lbs. 4.35 • —
tanks, multiple units, 2 cars, same basis .100 lbs. 5.35 • 5.85
tanks, multiple units, 1 car, same basis⅝..100 lbs. 6.25 • 7.25
Chloroacetic acid, mono, flake, 99%, purif., dms., c.l lb. .23½- .25½
dms., l.c.l. ..... lb. .24½- —
tech., flake, 96-97%, dms., c.l., dms., l.c.l., frt. equald lb. .20 • —
frt. equald lb. .19 • —
2-Chloro-4-aminotoluene, tech., liq., dms., frt. alld lb. 1.03 • —
4-Chloro-2-aminotoluene, fused, bbls. lb. 1.38 • —
6-Chloro-2-aminotoluene, tech., liq., dms., frt. alld .lb. .66 • —
m-Chloroaniline, dms., c.l., frt. alld. lb. .75 • —
dms., l.c.l., same basis ..... lb. .77 • —
tanks, same basis ..... lb. .73 • —
o-Chloroaniline, dms., c.l., frt. alld. lb. .52 • —
dms., l.c.l., same basis ..... lb. .54 • —
tanks, same basis ..... lb. .50 • —
p-Chloroaniline, dms., c.l., frt. alld. lb. .77 • —
dms., l.c.l., same basis ..... lb. .79 • —
o-Chlorobenzaldehyde, dms., t.l., works. lb. 1.05 • —
dms., l.t.l., same basis ..... lb. 1.20 • —
p-Chlorobenzaldehyde, dms., l.c.l., works. lb. 1.95 • —
o-Chlorobenzoic acid, fib. dms., t.l., works. lb. 1.10 • —
fib. dms., smaller lots, works lb. 1.25 • —
p-Chlorobenzoic acid, fib. dms., 2,000-lbs. or more, works. lb. 2.25 • —
fib. dms., less than 2,000-lbs., same basis. lb. 2.30 • —
Chloroform, tech., dms., c.l., dlvd. E. lb. .18 • —
dms., l.c.l., same basis ..... lb. .19 • —
tanks, same basis ..... lb. .17 • —
USP, dms., c.l., dlvd. ..... lb. .27 • —
dms., l.c.l., dlvd. ..... lb. .30 • —
tanks, minimum 4,000 gals. dlvd. lb. .25 • —
2-Chloro-4-nitroaniline, paste, dlvd. E., 100% basis lb. .81 • —
Powd., dlvd. E., 100% basis lb. .86¼- —
4-Chloro-2-nitroaniline, powd., dlvd. E. lb. .86 • —
4-Chloro-2-nitrophenol, tech., paste, dms., frt. alld. lb. .75 • —
4-Chloro-2-nitrotoluene, tech., solid, dms., frt. alld. lb. .99 • —
6-Chloro-2-nitrotoluene, tech., solid, dms., frt. alld lb. .17 • —
o-Chlorophenol, dms., c.l., frt. equald. lb. .37 • —
dms., l.c.l., same basis ..... lb. .38 • —
p-Chlorophenol, dms., c.l., frt. equald. lb. .37 • —
dms., l.c.l., same basis ..... lb. .38 • —
Chloropicrin, coml., cyls., 180 lbs., frt. alld. lb. 1.07 • —
cyls., 100 lbs., same basis. lb. 1.08 • —
cyls., 50 lbs., same basis.. lb. 1.14 • —
Chlorosulfonic acid, dms., c.l., frt. equald. lb. .0465- —
dms., l.c.l., frt. equald..... lb. .0515- —
tanks, frt. equald ..... lb. .0415- —
Chlorosulfonic acid, in stainless steel dms.½c. per lb. higher
o-Chlorotoluene, tech., dms., t.l., works. lb. .37 • —
dms., l.c.l., t.t.l., same basis lb. .38 • —
Choline bitartrate, fib. dms., frt. adjusted. kilo 2.75 • 3.00
Choline chloride, fib. dms., frt. adjusted. kilo. 2.75 • 3.00
Choline dihydrogen citrate, fib. dms., frt. adjusted. kilo. 2.75 • 3.00
Chrome green, CP, dark, light, medium blue content, 1-15%, bbls., dlvd. E. of Rockies. lb. .43 • —
blue content, 16-30%, bbls., same basis. lb. .44 • —
medium blue content, 41-45%, bbls., same basis lb. .44 • —
blue content, 45-48%, bbls., same basis lb. .45 • —
Chrome green, reduced color 25%, bbls., same basis. lb. .20 • —
Chrome green prices 1c. higher W. of Rockies.
Chrome orange, CP, bbls., dlvd. E of Rockies lb. .35 • —
Chrome orange prices 1c. higher W. of Rockies.
Chrome yellow, CP, bbls., dlvd. E. of Rockies. lb. .35 • —
Chrome yellow price 1c. higher W of Rockies.
Chromic acid, 99¾%, dms., c.l., works, frt. equald lb. .29½- —
dms., l.c.l., dlvd. N. Y. Metropolitan area. lb. .30 • .31
Chromic acid, NF (see Chromium trioxide).
Chromium acetate, soln., 7½%, dms., 500-2,000-lb. lots, works. lb. .10 • —
Chromium fluoride, bbls., works lb. .51 • .52
Chromium oxide, hydrated, bbls., fib. dms., c.l., frt .alld. lb. 1.20 • —
Pure, bgs., c.l., frt. alld..... lb. .44½- —
bgs., l.c.l., same basis..... lb. .45¼- —
Chromium trioxide, NF, bots .... lb. 1.15 • —
Cinchona bark, NF, red, broken, bgs .lb. .25 • —
NF, yellow broken, bgs ..... lb. .35 • .40
Cinnamic acid, refd., bots ..... lb. 2.50 - 3.50
Cinnamic alcohol, bots. ..... lb. 1.60 - 1.75
Cinnamic aldehyde, dms. ..... lb. .80 - 1.00
Cinnamon, Ceylon, No. 2, bgs.... lb. .53 • —
Ceylon, No. "0000," bgs. ..... lb. .73 • —
Cinnamon bark oil, bots..... lb.36.00 -70.00
Cinnamon leaf oil, crude, dms. lb. 1.60 - 2.00
USP, (Cassia), cns., dms..... lb. 8.50 -13.50
Citral, CP, bots. ..... lb. 3.60 - 4.00
Extra, bots. ..... lb. 3.60 - 5.00
Syn., dms. ..... lb. 7.25 - 7.40
Citric acid, USP, anhyd., fine gran., bgs., dms., c.l lb. .29¼- .30
bgs., dms., 10,000-lb. lots, 1 shipt. lb. .30 • .30½
bgs., dms., smaller lots lb. .33½- .31
Citric acid, USP, hydrous, fine gran., bgs., dms., c.l..lb. .27½- .28
bgs., dms., 10,000-lb. lots, 1 shipt. lb. .28 • .28½
bgs., dms., smaller lots. lb. .29 • .29½
Powdered citric acid ½c. per lb. higher.
Citronella oil, Ceylon, dms..... lb. 1.00 • —
Java-type, dms. ..... lb. .88 • —
Citronellal, bots., dms ..... lb. 1.60 - 2.10
Citronellol, bots., dms. ..... lb. 1.90 - 2.50
Citronellol, synthetic, dms..... lb. 1.70 • —

Civet, artif., bots.....lb.13.75 -15.00
Nat., bots. .....oz. 8.50 -15.00
Clay, ball., dom., airfloated, bgs., c.l., Tenn..ton.17.50 -21.50
crushed, shed moisture, bulk, c.l., Tenn..ton. 8.00 -11.25
imp., airfloated, bgs., c.l., Atl. port..net-ton.43.00 -47.00
lump, bulk, Atl. port..net-ton.31.50 -37.50
Clay, China, dom., dry-grd., airfloated, 99%, 325 mesh, Georgia, bgs., c.l., works. ton.11.00 -17.00
Georgia, bgs., l.c.l., works. ton.13.50 -22.50
imp., white, lump, bulk, c.l., ex-dock, Philadelphia, Portland, Me..long-ton.23.00 -35.00
white, powd., bgs., c.l., ex dock. net-ton.50.00 • —
bgs., l.c.l., ex whse..net-ton.60.00 -70.00
Cleaners naphtha, petroleum, 105°F Flash, tankcars, New Jersey and New York gal. 18 • —
Group 3 ..... gal. .12875- —
Houston, Texas ..... gal. .145 • —
140°F Flash, tankcars, New Jersey or New York..gal. .205 • —
Group 3 ..... gal. .154 • —
Houston, Texas ..... gal. .17 • —
Cleve's acid, tech., mixed, solid, dms., frt. alld lb. 1.05 • —
1.6, tech., solid, dms., frt. alld lb. .77 • —
1.7, tech., dms., frt. alld..... lb. 2.20 • —
Cloves, Madagascar, bgs. ..... lb. .38½- —
Zanzibar, bgs. ..... lb. .38½- —
Clove bud oil, USP, dms..... lb. 2.70 - 3.60
Clove leaf oil, crude, dms. ..... lb. 1.25 • —
CMC, crude, 96.4% low or medium vis., bgs. or fib dms., 23,000 lbs., dlvd. E., 100% basis lb. .41½- —
96.4% low, or medium vis., bgs. or fib. dms., less than 23,000 lbs., dlvd. E., 100% basis lb. .43½- —
65%, low or medium vis., bgs., or fib. dms., c.l., dlvd. E., 100% basis lb. .41½- —
bgs. or fib. dms., l.c.l., dlvd. E., 100% basis lb. .43½- —
purif., high vis. (see Cellulose gum).
CMC, standard, low or medium vis., bgs., 23,000 lbs., works, frt. alld .lb. .57 • —
bgs., smaller lots, same basis. lb. .59 • —
CMC prices W. of the Rockies are 2c. per lb. lower and are on a works basis.
Coaltar, crude, resale for soln., tanks, works gal. .17 • —
Refd., resale, indust., dms., c.l., ex whse. gal. .35 • —
dms., l.c.l., ex whse...gal. .39 • —
tanks, works ..... gal. .20½- —
Coaltar pitch, aluminum, bulk, works. ton.44.00 • —
Carbon and indust., bulk, works. ton.44.00 • —
Core, bulk works..... ton.40.50 • —
Fiber, bulk works..... ton.48.00 • —
Roofing, 140-155°F., Federal Specification RP-381 Type I. tanks, works..ton.41.00 • —
Cobalt acetate, 23.4% Co., dms., dlvd lb. 1.04 • —
Cobalt blue, genuine, 250 lb. bbls., dlvd. E. of Rockies lb. 4.90 • —
Cobalt blue prices 1c. higher W. of Rockies.
Cobalt blue, imitation (see Ultramarine blue).
Cobalt carbonate, 48% Co., powd., bgs., dlvd lb. 1.45 • —
Cobalt chloride, 24.2% Co., dms., dlvd lb. .93 • —
Cobalt hydrate, 60-61% Co., dms., dlvd lb. 2.05 • —
Cobalt linoleate, fused 8½% Co., dms. lb. .71½- —
Liq., 6% Co., dms ..... lb. .57½- —
Cobalt metal, 99%, dms., f.o.b. carrier. lb. 1.50 • —
Cobalt naphthenate, liq., 6% Co., dms., dlvd lb. .48¾- —
Cobalt nitrate, 20.1% Co., bbls., dlvd. lb. .75 • —
Cobalt oxide, black, ceramic grade, 72½-73½% Co., kgs., dlvd. E. of Mississippi R. lb. 1.15 • —
70-71% Co., kgs., same basis..lb. 1.12 • —
Cobalt oxide prices W. of Mississippi R. 3c. per pound higher.
Cobalt phosphate, powd., 32.1% Co., dms., dlvd..lb. 1.35 • —
Cobalt resinate, fused, 3% Co., dms. lb. .33½- —
Cobalt sulfate, cryst., 21% Co., dms., dlvd lb. .64 • —
Monohydrated, 33% Co., dms., dlvd lb. 1.09 • —
Cobalt tallate, 6% Co., dms., dlvd. lb. .44 • —
Cocaine, USP, cns., 100-oz. lots, f.o.b. works oz.17.50 • —
Cocaine hydrochloride, cns., 100-oz. lots, f.o.b. works oz.13.75 • —
Cocillana bark, bls..... lb. .18 • .20
Cocoa butter, bgs..... lb. .61 • .66
Coconut oil, crude, tanks, New York..lb. .13¾- —
tanks, Pac. coast..... lb. .12⅛- —
Refd., deodorized, dms..... lb. .19½- .20½
Coconut oil acids, dist., dms..... lb. .25 • .27½
tanks ..... lb. .22½- —
double dist. (stripped), dms.... lb. .26 • .28½
tanks ..... lb. .23½- —
Cod oil, dms., spot ..... lb. .08⅜- .08½
Codeine, NF, cns., 100-oz. lots oz.13.25 • —
Codeine hydrochloride, cns., 100-oz. lots oz.11.75 • —
Codeine phosphate, USP, cns., 100-oz. lots oz.10.25 • —
Codeine sulfate, USP, cns., 100-oz. lots oz.10.75 • —
Codliver oil, USP, dms..... gal. 1.40 • 1.70
Cohosh root, black, bls..... lb. .20 • .25
Blue, bls. ..... lb. .20 • .25
Colchicine, USP, bots..... oz.29.00 • —
Colchicum root, bls ..... lb. .35 • .45
Colchicum seed, bgs ..... lb. .75 • .80
Collodion, USP, dms..... lb. .32½- —
USP, flexible, dms..... lb. .34 • —
Colocynth pulp, bls. ..... lb. .75 • —
Colombo root, bls..... lb. .16 • .18
Condurango bark, bls..... lb. .18 • .20
Congo copal gum, No. 1, bgs.... lb. .26 • .27
No. 2, bgs. ..... lb. .23 • .25
No. 3, bgs. ..... lb. .18 • .20
Copaiba balsam, cns., dms..... lb. .65 • 1.10
Copaiba oil, cns ..... lb. 1.35 • 2.00
Copper acetate, bbls., c.l., works. lb. .53 • —
bbls., l.c.l., works ..... lb. .54 • —
Copper carbonate, 55%, bgs., c.l., works lb. .3635- —
bgs., l.c.l., works..... lb. .3785- —
Copper chloride, cupric, anhyd., dms., works lb. .45½- .46
cryst., dihydrate, dms., works. lb. .31 • .31½
cryst., dried, dms., works. lb. .29¼- .29¾
Copper chloride, cuprous, dms., works. lb. .4135- .4435
Copper cyanide, tech., dms., 20,000-lb. lots or more..lb. .609 • —
dms., 1,000-lb. lots or more..lb. .619 • —
dms., smaller lots..... lb. .639 • .65
Copper gluconate, dms ..... lb. 3.20 • —
Copper hydrate, dry, dms., c.l., frt. E. of Miss..lb. .53½- —
dms., l.c.l., same basis..... lb. .54 • —

Copper metal, electrolytic, dlvd. Valley basis..lb. .33 • .36
Copper naphthenate, liq., 8% Cu. dms, frt. alld..lb. .26½- —
Copper nitrate, tech., cryst., dms., works..lb. .30¼ .32¼
Copper oleate, solid, 9% Cu, dms., works..lb. .45 • —
Copper oxide, black, bbls., 100-5,000-lb. lots, works..lb. .49¼- —
Copper oxide, red, 97%, USN Type 1, bbls., 100-5,000-lb. lots. lb. .50½- —
90%, USN Type II, bbls., 100-5,000-lb. lots or more, works..lb. .48½- —
Copper quinolinolate, 18% Cu, dms., ton lots..lb. 4.25 • —
10% active quinolinolate, dms..lb. 1.14 • 1.15
Copper resinate, precip., dms., frt. alld lb. .41½- —
Copper sulfate, CP, gran., dms., works lb. .1885- —
Cryst., 99%, bgs., c.l., works. 100 lbs.13.00 • —
bgs., l.c.l., works....100 lbs.13.25 -15.75
Monohydrated, 35%, dms., c.l., works..100 lbs.24.00 • —
dms., l.c.l., works ...100 lbs.24.75 • —
Tribasic, distributors, bgs., c.l., works 100 lbs.29.60 • —
bgs., l.c.l., works. 100 lbs.31.10 • —
Copper undecylenate, dms .. lb 2.75 • —
Copra, Atl., Gulf ports, c.i.f...ton.167.50 • —
Pac. ports, c.i.f. ..... ton.162.50 • —
Coriander oil, USP, bots. ..... lb. 7.25 - 8.75
Coriander seed, Moroccan, bgs..lb. .12 • —
Rumanian, bgs. ..... lb. .10½- —
Yugoslavian bgs. ..... lb. .08½- —
Corn oil, crude, tanks, works....lb. .12⅜- —
Foots (soapstock) acid 95%, tanks, New York..lb. .05 • —
Refd., salad, dms. ..... lb. .1810- .1835
tanks ..... lb. .1610- —
Corn oil acids, dist., dms. ..... lb. .15¾- .18¼
tanks ..... lb. .1648- —
Corn sugar, tanners, chipped, paper bgs., c.l., 60,000 lbs. min. 100 lbs. 7.30 • —
paper bgs., l.c.l 100 lbs. 7.45 • —
Corn syrup, 42° Be., tanks, f.o.b. plant...100 lbs. 5.41 • —
non-ret. dms., c.l., same basis. 100 lbs. 7.52 • —
Corrosive sublimate (see Mercuric chloride).
Cortisone acetate, USP, bots., kilo or more, gram. 1.05 • 1.75
Costus oil, bots ..... oz. 6.00 • —
Cottonseed meal, 41%, bgs., Memphs..ton.57.00 • —
Cottonseed oil, crude, tanks, South, East..lb. .09¼- .09½
tanks, Valley ..... lb. .09¼- —
tanks, Texas, Waco ..... lb. .09¼- —
tanks, Texas, Lubbock ..... lb. .09¼- —
Foots (soapstock), acid, 95%, tanks, Texas, Waco....lb. .03¼- —
Refd., salad, dms. ..... lb. .14½- .14¾
tanks ..... lb. .12½- —
Cottonseed oil acids, dist., dms..lb. .15¾- .18¼
tanks ..... lb. .13½- —
Coumarin, NF, cryst., dms ....lb. 3.30 • 3.40
Cramp bark, NF, bls..... lb. .90 • 1.00
Cream of tartar (see Potassium bitartrate).
Creosote carbonate, NF, bots., cbys., lb. 3.05 • 3.26
Creosote, coaltar, crude, tanks, works, frt. adjusted gal. .24 • —
Crude, soln. 80%, tanks, works. gal. .226 • —
Refd., dms., c.l., works ..... gal. .50 • —
dms., l.c.l., same basis.... gal. .62 • —
tanks, same basis ..... gal. .38 • —
West Coast creosote prices computed on a basis of 24c. per gallon for straight oil and 20c. per gallon for coaltar.
Creosote, beechwood, cbys., dms., f.o.b. works, dlvd. in Metropolitan area lb. 1.72 • 1.77
Hardwood, NF, cbys., dms., same basis lb. 1.42 • 1.47
Pinewood, dms., incl., c.l., works. lb. .0561- —
dms., incl., l.c.l., works .... lb. .0634- —
dms., incl., l.c.l., ex whse, New York..lb. .0745- —
tanks, works ..... lb. .0460- —
Creosote oil (see Creosote coaltar).
Cresol, tech., 50% below 204°C., dry above 207°C., wide distillation range, non-ret. dms., c.l., frt. alld lb. .16½- —
non-ret. dms., l.c.l., same basis..lb. .17½- —
tanks, same basis..... lb. .145 • —
Cresol, USP, 50% 204°C., dry above 207°C., wide distillation range, non-ret. dms., c.l., same basis..lb. .18 • —
non-ret. dms., l.c.l., same basis. lb. .19 • —
tanks, same basis..... lb. .16 • —
m-Cresol, 95-98%, dms., c.l., works. lb. .60 • —
dms., l.c.l., works..... lb. .61 • —
m-p-Cresol, 5-95% 3°C., dms., c.l., frt. equald .lb. .18 • —
dms., l.c.l., same basis..... lb. .19 • —
tanks, same basis ..... lb. .16 • —
2.97% 2°C., dms., c.l., frt. equald. lb. .22 • —
dms., l.c.l., same basis..... lb. .23 • —
tanks, same basis ..... lb. .20 • —
o-Cresol, 30.5°C. m.p. and over, ret., dms., c.l., frt. equald..lb. .17 • —
ret. dms., l.c.l., same basis..lb. .18 • —
tanks, same basis ..... lb. .15 • —
30°-30.49°C. m.p., dms., c.l., frt. equald. lb. .16½- —
ret. dms., l.c.l., same basis..lb. .17½- —
tanks, same basis..... lb. .14½- —
o-Cresol, 30.5°C. m.p. and over, ret.
Cresol, 29°-29.9°C. m.p., dms., c.l., frt. equald..lb. .16 • —
ret. dms., l.c.l., same basis..lb. .17 • —
tanks, same basis..... lb. .14 • —
25°-28°C. m.p., dms., c.l., frt. equald. lb. .15 • —
ret. dms., l.c.l., same basis..lb. .16 • —
tanks, same basis..... lb. .13 • —
p-Cresol, 98%, dms., c.l., dlvd..lb. .52 • —
dms., l.c.l., dlvd..... lb. .53 • —
tanks, dlvd. ..... lb. .49 • —
2,3-Cresotic acid, dms., ton lots, works. lb. .70 • —
dms., smaller lots, works ..... lb. .72 • —
p-Cresyl methyl ether, cns....lb. 1.80 • 2.05
Cresylic acid, coaltar, dom., meta-para content above 25%, resins and tricresyl phosphate grades, dms., c.l., t.l., frt. equald..gal. 1.35 • —
dms., l.c.l., same basis..gal. 1.40 • —
tanks, same basis .....gal. 1.15 • —
metapara content 25% or less, dms., c.l., t.l., same basis gal. 1.20 • —
dms., l.c.l., same basis..gal. 1.25 • —
tanks, frt. equald.....gal. 1.00 • —
Cresylic acid, coaltar, imp., metapara content 25% or less, f.o.b. works, frt. equald, to competitive points, 50 dms. or more. gal. 1.03½- —
less than 50 dms., same basis..gal. 1.05 • 1.15
tanks, same basis.....gal. 1.00 • —
Crotonaldehyde, 91-93%, dms., l.c.l., works..lb. .25 • —
Crotonic acid, dms., 200 lbs. or more, l.c.l., dlvd..lb. .36 • —

Cryolite, nat., indust., bgs., c.l., works..100 lbs.13.00 • —
bgs., l.c.l., works.....100 lbs.14.25 • —
Cube root, powd., 5% rotenone, bgs., t.l., works..lb. .21 • —
bgs., l.t.l., works.....lb. .22 • —
Cubeb berries, NF, bgs.....lb. 1.00 • —
Powd., cs. .....lb. 1.15 • —
Cubeb oil, cns.....lb.12.00 -16.00
Cumene, dms., c.l., works.....lb. .12 • —
dms., l.c.l., works.....lb. .14 • —
tanks, works .....lb. .11 • —
Cumin seed, Iranian, bgs.....lb. .21 • —
Moroccan, bgs. .....lb. .36 • —
Turkish, bgs. .....lb. .20 • —
Cumin seed oil, bots., cns.....lb.15.50 -17.00
Cyanamide, fertilizer, mixing grade, 21% N, gran., bgs., Niagara Falls, Ont., contract. ton.57.00 • —
Fertilizer, pulv., 21% N, bgs., works..unit-ton. 2.85 • —
Cyanamide, fertilizer, indust. grade, bgs, c.l., works..ton.75.00 • —
bgs., l.c.l., works.....ton.96.00 • —
Indust. grade, 6-16 mesh, dms., c.l., works..ton.120.00 • —
dms., l.c.l., works.....ton.140.00 • —
Cyclohexane, 99%, tech., dms., c.l., dlvd. E. of Rockies..gal. 1.02 • —
dms., l.c.l., same basis....gal. 1.10 • —
dms., c.l., dlvd. W. of Rockies..gal. .77 • —
dms., l.c.l., same basis..gal. .85 • —
tanks, works .....gal. .55 • —
98%, tech., 40-dm. lots or more, f.o.b. works..gal. .56 • —
5-39 dms., same basis....gal. .60 • —
tanks, same basis.....gal. .36 • —
Cyclohexanol, tech., dms., c.l., works, frt. alld. E..lb. .28½- —
dms., l.c.l., works, same basis. lb. .29½- —
tanks, works, same basis....lb. .26 • —
Cyclohexanone, tech., dms., c.l., works..lb. .33½- —
dms., l.c.l., works.....lb. .34½- —
tanks, works .....lb. .31 • —
Cyclohexylamine, tech., dms., c.l., works..lb. .49 • —
dms., l.c.l., works.....lb. .50 • —
tanks, works .....lb. .47 • —
Cypress oil, bots.....lb. 5.30 • —

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2,4-D, tech., bgs., dms., c.l., works, frt. equald..lb. .40 • —
bgs., dms., l.c.l., same basis..lb. .45 • .49
2,4-D butyl ester, dms., c.l., works. lb. .43 • —
dms., l.c.l., same basis.....lb. .48 • .52
tanks, same basis.....lb. .42 • —
2,4-D isopropyl ester, dms., c.l., works..lb. .43 • —
dms., l.c.l., works.....lb. .48 • .52
tanks, works .....lb. .42 • —
Dammar gum, Batavia, A/E, cs..lb. No stocks.
East India, Batu, bold, bgs..lb. .15½- .18
nubs and chips, bgs. .....lb. .09 • .10
black, bold, bgs.....lb. .15½- .18
nubs and chips, bgs. .....lb. .12¼- .13½
unscraped, bgs. .....lb. .13 • .14½
pale, chips, bgs. .....lb. .15 • .17
pale, nubs, bgs. .....lb. .20¾- .24
Siam, cs. .....lb. .31½- .34
Singapore, No. 1, bgs. .....lb. .34 • .40
No. 2, bgs. .....lb. .29 • .32
dust, bgs. .....lb. .18 • .20
No. 3, bgs. .....lb. No stocks.
Dandelion root, bls.....lb. .35 • .40
DDD, tech., flake, grd., fib. dms., c.l., works..lb. .45 • .47
fib. dms., l.c.l., works..lb. .46 • .48
DDT, flake or lump, bgs., c.l., dlvd..lb. .23 • —
bgs., smaller lots, same basis. lb. .25 • —
fib. dms., c.l., same basis....lb. .24 • —
fib. dms., smaller lots, same basis..lb. .26 • —

Powdered DDT 1c. per pound higher.

DDVP (see Dimethyl dichlorovinyl phosphate).

l-Decanol, tech., dms., c.l., dlvd. E. lb. .43½- —
dms., l.c.l., dlvd. E. .....lb. .45½- —
tanks, dlvd. E. .....lb. .41 • —
Cyclohexylamine, dms., c.l., works.
Decyl alcohol, mixed isomers, dms., c.l., dlvd..lb. .23½- —
dms., l.c.l., dlvd. .....lb. .25 • —
tanks, dlvd. .....lb. .21 • —
Perfume grade, bots. .....lb. 1.00 • 2.00
Decyl alcohol, normal (see l-Decanol).
Deertongue leaves, bls. .....lb. .53 • .60
Defluorinated phosphate, feed grade, 14% P, paper bgs., c.l., t.l., Tupelo, Miss..ton.57.07 • —
18% P, paper bgs., c.l., works. ton.66.25 -71.80
19% P, paper bgs., c.l., t.l., works, Houston, Tex..ton.74.35 • —

Prices of defluorinated phosphate in bulk $3 per ton less than bg. c.l. prices.

Degras, common (15-17% free fatty acid), 400-lb. dms..lb. .12 • .14
Neutral (over 2% free fatty acid), 400-lb. dms..lb. 13 • —
Denatured alcohol, ethyl, CD-12, CD-13, CD-14, CD-17, dms., c.l., dlvd. E. of Rockies. gal. .69½- —
dms., l.c.l., same basis .....gal. .74½- .80½
tanks, dlvd., same basis....gal. .53½- —

Tankcar sales require written authorization by Alcohol and Tobacco Tax Division.

Denatured alcohol, ethyl, proprietary solvent, dms., c.l., dlvd. E. of Rockies..gal. .72 • —
dms., l.c.l., same basis.....gal. .77 • .83
tanks, same basis .....gal. .56 • —

Tankcar sales require written authorization by Alcohol and Tobacco Tax Division.

Denatured alcohol, ethyl, SD1, dms., dlvd. E. of Rockies..gal. .70½- —
dms., l.c.l., same basis....gal. .75½- .81½
tanks, same basis .....gal. .54½- —
SD2B, dms., c.l., dlvd. E. of Rockies..gal. .69 • —
dms., l.c.l., same basis....gal. .74 • .80
tanks, same basis.....gal. .53 • —
SD3A, dms., c.l., dlvd. E. of Rockies..gal. .68 • —
dms., l.c.l., same basis....gal. .73 • .79
tanks, same basis .....gal. .52 • —
Denatured alcohol, ethyl, SD23A, dms., c.l., dlvd. E. of Rockies..gal. .70½- —
dms., l.c.l., same basis....gal. .75½- .81½
tanks, same basis .....gal. .54½- —
SD23H, dms., c.l., dlvd. E. of Rockies..gal. .71 • —
dms., l.c.l., same basis....gal. .76 • .82
tanks, same basis.....gal. .55 • —
Denatured alcohol, SD29, dms., c.l., dlvd. E. of Rockies..gal. .69½- —
dms., l.c.l., same basis....gal. .74½- .80½
tanks, same basis.....gal. .53½- —
SD30, dms., c.l., dlvd. E. of Rockies..gal. .68 • —
dms., l.c.l., same basis....gal. .73 • .79
tanks, same basis.....gal. .52 • —

Denatured alcohol, ethyl, SD-35A, dms., c.l., dlvd. E. of Rockies..gal. .71 • —
dms., l.c.l., same basis....gal. .76 • .82
tanks, same basis.....gal. .55 • —
SD-40, dms., c.l., dlvd. E. of Rockies..gal. .70½- —
dms., l.c.l., same basis...gal. .75½- .81½
tanks, same basis.....gal. .54½- —

For anhyd. alcohol on above formulas prices are 7c. per gal. higher.

West coast dlvd. prices are the same as eastern prices, except in Idaho, Montana, Oregon, and Washington where a 5c. differential on tankcars is maintained.

d-Desoxyephedrine hydrochloride, dms..lb..15.00 -17.00
dl-Desoxyephedrine hydrochloride, dms..lb. 6.50 • —
Dextrin, corn, gum, paper bgs., c.l., 100 lbs. 9.33 • —
paper bgs., l.c.l. .....100 lbs. 9.53 • —
canary dark, paper bgs., c.l. 100 lbs. 9.22 • —
paper bgs., l.c.l. .....100 lbs. 9.37 • —
indust. grade, 6-16 mesh, canary light, paper bgs., c.l. 100 lbs. 9.12 • —
paper bgs., l.c.l. .....100 lbs. 9.27 • —
white, paper bgs., c.l..100 lbs. 8.96 • —
paper bgs., l.c.l. ....100 lbs. 9.11 • —

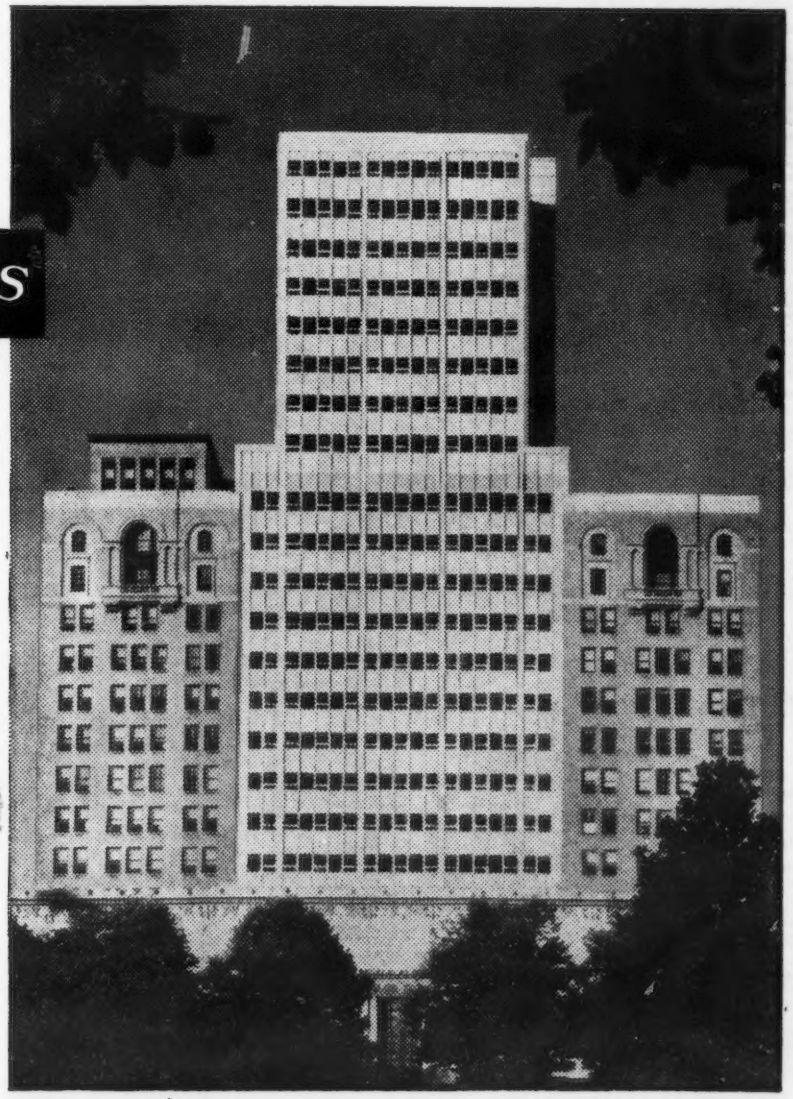
Corn dextrin in cotton bgs. 15c. per 100 lbs. higher.

Dextrose, anhyd., coml., bgs., c.l. 100 lbs. 8.65 • —
bgs., l.c.l. .....100 lbs. 8.80 • —
Anhyd., special, aluminum foil lined fib. dms., 200-lb. dms..100 lbs.14.70 • —
100-lb. dms. .....100 lbs.15.20 • —
Hydrated, coml., bgs., c.l., ex whse..100 lbs. 7.45 • —
bgs., c.l., ex whse....100 lbs. 7.60 • —
USP, dms. .....lb. .19¾- —

Diacetone alcohol, acetone-free, dms., c.l., dlvd..lb. .15½- —
dms., l.c.l., dlvd. .....lb. .17 • —
tanks, dlvd. .....lb. .13 • —
Tech., dms., c.l., dlvd. .....lb. .15 • —
dms., l.c.l., dlvd. .....lb. .16½- —
tanks, dlvd. .....lb. .12½- —
Diacetyl, flavor grade, bots. ....lb. 4.30 • 4.55
Di-sec-amyl phenol, dms., c.l., works..lb. .32 • —
dms., l.c.l., works .....lb. .33 • —
tanks, works .....lb. .29½- —
Di-tert-amyl phenol, dms., c.l., works..lb. .32 • —
dms., l.c.l., works .....lb. .33 • —
tanks, works .....lb. .29½- —
Diallylamine, dms., c.l., dlvd. ....lb. .98½- —
dms., l.c.l., dlvd. .....lb. 1.00 • —
tanks, dlvd. .....lb. .96 • —
o-Dianisidine, dry, tech., fib. dms. lb. 2.00 • —
Dibenzyl sebacate, dms., c.l., works. lb. .93 • —
dms., l.c.l., same basis.....lb. .94 • —
tanks, same basis.....lb. .91 • —
Dibromobenzene, bgs., 500-lb. lots. lb. .55 • —
2,6-Di-tert-butyl-p-cresol, feed grade, c.l., t.l., dms., dlvd. ..lb. .65 • —
l.t.l., dms., same basis.....lb. .68 • —
Food grade, c.l., t.l., dms., dlvd. lb. .65 • —
dms., l.t.l., same basis .....lb. .68 • 1.10
Tech., dms., c.l., t.l., dlvd. ...lb. .57 • —
dms., l.c.l., same basis.....lb. .60 • —
tanks, same basis.....lb. .54 • —

Dibutyl fumarate, dms., c.l., t.l., dlvd. E..lb. .31½- —
dms., l.c.l., l.t.l., dlvd. E.....lb. .33 • —
tanks, dlvd. E.....lb. .29 • —
Dibutyl maleate, dms., c.l., t.l., dlvd. E..lb. .31½- —
dms., l.c.l., l.t.l., dlvd. E.....lb. .33 • —
tanks, dlvd. E.....lb. .28 • —
Dibutyl phthalate, dms., c.l., dlvd. E lb. .31 • —
dms., l.c.l., same basis.....lb. .32½- —
tankcars, tanktrucks, 2,000 gals., same basis..lb. .26 • —
tanktrucks, 1,000-1,999 gals., same basis..lb. .26½- —
Dibutyl sebacate, dms., c.l., works. lb. .67½- —
dms., l.c.l., works.....lb. .68½- —
tanks, works .....lb. .65½- —
Dibutyl tartrate, dms., works, frt. alld..lb. .65½- —
Dibutylamine, dms., c.l., dlvd..lb. .55½- —
dms., l.c.l., same basis.....lb. .57 • —
tanks, same basis.....lb. .53 • —
Dicapryl phthalate, dms., c.l., dlvd. lb. .27½- —
dms., l.c.l., dlvd. .....lb. .29 • —
tanks, dlvd. .....lb. .25 • —
Dicaprylyl sebacate, dms., c.l., works. lb. .63 • —
dms., l.c.l., works.....lb. .63½- .64
tanks, works .....lb. .61 • —
2,5-Dichloroaniline, dms., works..lb. .83 • —
3,4-Dichloroaniline, tech., solid, tanks, frt. alld..lb. .73 • —

HOW HERCULES HELPS...



CITRUS GROWERS PRODUCE BETTER FRUIT . . . Delnav®, a miticide developed in the Hercules Agricultural Chemicals Laboratory, gives long-lasting control of several species of mites attacking Florida citrus groves. Especially suitable for aerial application, Delnav offers growers greater flexibility in scheduling treatments.

NEW HEADQUARTERS

Tallest building in Wilmington is the Hercules Tower opened August 1 to house 1,500 employees of the Home Office. The 22-story structure represents the culmination of four decades' growth through continued research and product diversification, and provides room for immediate and long-range expansion. Hercules' new official address is: Hercules Tower, 910 Market Street, Wilmington 99, Del.

HERCULES POWDER COMPANY
INCORPORATED
Hercules Tower, 910 Market Street, Wilmington 99, Delaware

CHEMICAL MATERIALS FOR INDUSTRY

HERCULES

o-Dichlorobenzene, dms., c.l., frt. alld. E lb. .12¾- —
dms., l.c.l., same basis lb. .13¾- —
tanks, same basis lb. .11 - —
p-Dichlorobenzene, dms., c.l., f.o.b. works, frt. alld. E lb. .12 - —
dms. 2.000 lbs. or more same basis lb. .14½- —
1,4-Dichlorobutane, dms., c.l., or t.l. works lb. .33½- —
dms., l.c.l., or l.t.l., works lb. .34 - —
tanks, works lb. .32 - —
Dichlorodiphenyltrichloroethane (see DDT).
2,2-Dichloroethyl ether, dms., c.l., t.l., dlvd. E lb. .15½- —
dms., l.c.l., l.t.l., same basis lb. .17 - —
tanks, same basis lb. .13 - —
Dichloroisocyanuric acid, dms., c.l., t.l., frt. equald lb. .65 - —
dms., l.c.l., same basis lb. .75 - —
Dichloropentanes, dist., dms., c.l., works lb. .05 - —
dms., l.c.l., works lb. .06 - —
tanks, works lb. .03 - —
Dichlorophenoxyacetic acid (see 2,4-D).
Dicyclohexylamine, dms., c.l., works.
dms., l.c.l., works lb. .54 - —
tanks, works lb. .55 - —
Dicyclohexyl phthalate, gran., fib. dms., c.l., works, frt. alld. lb. .46½- —
fib. dms., l.c.l., same basis lb. .48 - —
Dicyclopentadiene, dms., c.l., t.c.b. works lb. .14½- —
dms., l.c.l., same basis lb. .14¾- —
tanks, same basis lb. .12 - —
Didecyl phthalate, dms., c.l., works. lb. .28½- —
dms., l.c.l., same basis lb. .30 - —
tankcars, tanktrucks, 2,000 gals. lb. .26 - —
tanktrucks, 1,000-1,999 gals, same basis lb. .26½- —
Dieldrin, dms., c.l., dlvd. lb. 1.85 - —
dms., l.c.l. dlvd. lb. 1.90 - —
Diethanolamine, dms., c.l., dlvd. E. lb. .27 - —
dms., l.c.l., same basis lb. .28½- —
tanks, same basis lb. .24½- —
Diethanolamine lauryl sulfate, dms., c.l., frt. alld lb. .27½- —
dms., l.t.l., frt. alld. lb. .28½- —
tanks, frt. alld. lb. .26½- —
Diethyl barbituric acid (see Barbital).
Diethyl carbonate, dms., c.l., f.o.b. works lb. .47½- —
dms., l.c.l., same basis lb. .48½- —
tanks, same basis lb. .45 - —
Diethyl ethanolamines, dms., c.l., dlvd lb. .69½- —
dms., l.c.l. dlvd. lb. .71 - —
tanks, dlvd. lb. .67 - —
Diethyl oxalate, dms., c.l., f.o.b. works lb. .42½- —
dms., l.c.l., same basis lb. .43½- —
tanks, same basis lb. .40 - —
Diethyl phthalate, dms., c.l., dlvd. lb. .27½- —
dms., l.c.l., dlvd. lb. .29 - —
tanktrucks, 1,000-1,999 gals., same basis lb. .26½- —
tankcars, tanktrucks, 2,000-lb. lots, same basis lb. .26 - —
Diethyl sulfate, dms., c.l., works lb. .19½- —
dms., l.c.l., works lb. .20¼- —
tanks, works lb. .17½- —
Diethyl thiourea, dms., c.l., t.l., works lb. .58 - —
dms., l.c.l., same basis lb. .59 - —
Diethyl toluamide, 90-95% meta isomer dms., c.l., t.l., works.
5-44 dm. lots, works lb. 2.30 - —
1-4 dm. lots, works lb. 2.35 - —
N,N-Diethyl-m-toluidine, tech., liq., tanks, frt. alld lb. .83 - —
Diethylamine, dms., c.l., dlvd. E lb. .52 - —
dms., l.c.l., same basis lb. .53½- —
tanks, same basis lb. .49½- —
N,N-Diethylaniline, dms., c.l., frt. alld lb. .57 - —
dms., l.c.l., same basis lb. .58 - —
tanks, same basis lb. .55 - —
Diethylbenzene, dms., t.l., frt. alld. lb. .16½- —
Di-2-ethylhexyl adipate (see Dioctyl adipate).
Di-2-ethylhexyl phthalate (see Dioctyl phthalate).
Diethylene glycol, dms., c.l., dlvd. E. lb. .17¾- —
dms., l.c.l., same basis lb. .19¼- —
tanks, same basis lb. .15¼- —
Diethylene glycol diethyl ether, dms., c.l., works lb. .51½- —
dms., l.c.l., works lb. .52¼- —
Diethylene glycol monobutyl ether, c.l., dms., works lb. .30¾- —
dms., l.c.l., works lb. .32¼- —
tanks, dlvd. E. lb. .28¼- —
Diethylene glycol monobutyl ether acetate, dms., c.l., works.
dms., l.c.l., works lb. .30¾- —
tanks, dlvd. E. lb. .31½- —
Diethylene glycol monoethyl ether, dms., c.l., dlvd lb. .28¾- —
dms., l.c.l., dlvd. lb. .22½- —
tanks, dlvd. E. lb. .24 - —
Diethylene glycol monoethyl ether acetate, dms., c.l., works.
dms., l.c.l., works lb. .27¼- —
tanks, works lb. .28 - —
Diethylene glycol monomethyl ether, dms., c.l., dlvd lb. .25¼- —
dms., l.c.l., dlvd. lb. .21 - —
tanks, dlvd. E. lb. .22½- —
Diethylenetriamine, dms., c.l., dlvd. E lb. .44 - —
dms., l.c.l., dlvd. E. lb. .45½- —
tanks, dlvd. E. lb. .41½- —
Diethylstilbesterol, USP, bots., 10-kilo lots kilo.100.00 -147.50
1-kilo lot kilo.110.00 -152.50
Digitalis leaves, USP, dom., dms lb. 1.25 - —
Digitoxin, USP, bots. gram. 4.20 - —
Diglycol laurate, dms. lb. .32¾- .34
Diglycol stearate, dms., ton lots lb. .26 - .28
Diglycolic acid, bgs., c.l., t.l., works. lb. .15½- —
bgs., l.c.l., works lb. .16 - —
Dihexyl sebacate, dms., c.l., works. lb. .66 - —
dms., l.c.l., works lb. .67 - —
tanks, works lb. .64 - —
Dihydrazine sulfate, dms., works lb. 1.10 - 1.25
Dihydrostreptomycin sulfate, bulk. gram. .035 - .036
1,2-Dihydroxy anthraquinone, dms., works lb. 3.45 - —
2,2-Dihydroxy-5-5-dichloro-diphenyl-methane, pure, dms lb. 2.55 - —
Tech., dms., 20,000 lbs. or more lb. 1.11 - —
dms., 1,050 lbs. to 20,000 lbs. lb. 1.13 - —
dms., 150 lbs. to 1,050 lbs. lb. 1.15 - —
Di-isobutyl ketone, dms., c.l., dlvd. lb. .17 - —
dms., l.c.l. dlvd. lb. .18½- —
tanks, dlvd. lb. .14½- —
Di-isobutyl phthalate, dms., c.l., dlvd. E. lb. .31½- —
dms., l.c.l., same basis lb. .32½- —
tanks, same basis lb. .29 - —
Di-isobutylene, dms., c.l., dlvd. E lb. .10 - —
dms., l.c.l., dlvd. E lb. .11½- —
tanks, dlvd. E. lb. .08 - —
Di-iso-octyl phthalate, dms., c.l., dlvd lb. .28½- —
dms., l.c.l., same basis lb. .30 - —
tanktrucks, 1,000-1,999 gals., dlvd. lb. .26½- —
tankcars, tanktrucks, 2,000 gals., dlvd lo. .26 - —
Di-iso-octyl sebacate, dms., c.l., works lb. .62 - —
dms., l.c.l., works lb. .62½- .63
tanks, works lb. .60 - —
Di-isopropanolamine, dms., c.l., dlvd. lb. .23¼- —
dms., l.c.l., same basis lb. .24¾- —
tanks, same basis lb. .20¾- —
Di-isopropylamine dms., c.l., dlvd. E. of Rockies lb. .50½- —
dms., l.c.l., same basis lb. .52 - —
tanks, same basis lb. 48 - —
Dillweed oil, dom., bots., dms lb. 3.75 - 4.80
Dimethyl anthranilate, cns. lb. 4.15 - —
Dimethyl dichlorovinyl phosphate, 55-gal. dms., dlvd lb. 3.50 - —
Dimethyl ethanolamines, anhyd., dms., c.l. dlvd lb. 1.225 - —
dms., l.c.l., dlvd. lb. 1.235 - —
tanks, dlvd. lb. 1.20 - —
70% dms., c.l., dlvd., 100% basis, contained amines lb. .68½- —
dms., l.c.l., dlvd., 100% basis, tanks, dlvd., 100% basis lb. .69½- —
Dimethyl hydroquinone, dms. lb. 1.90 2.20
Dimethyl phthalate, dms., c.l., works lb. .28½- —
dms., l.c.l., works lb. .30 - —
tanktrucks, 1,000-1,999 gals., same basis lb. .26½- —
tankcars, tanktrucks, 2,000 gals., same basis lb. .26 - —
Dimethyl sebacate, dms., c.l., works. lb. 1.31 - —
dms., l.c.l., works lb. 1.30 - —
tanks, works lb. 1.28 - —
Dimethyl sulfate, ret. dms., c.l., works lb. .17½- —
ret. dms., l.c.l., works lb. .18½- —
tanks, works lb. .16½- —
Dimethyl sulfide, dms., c.l., works. lb. .18 - —
dms., l.c.l., works lb. .18½- —
tanks, works lb. .15 - —
Dimethylamine, 25% soln., dms., c.l., frt. equald, 100% basis lb. .38 - —
dms., l.c.l., frt. equald, 100% basis lb. .38½- —
tanks, frt. equald, 100% basis. lb. .28 - —
40% soln., dms., c.l., frt. equald. 100% basis lb. .35 - —
dms., l.c.l., frt. equald, 100% basis lb. .35½- —
tanks, frt. equald, 100% basis. lb. .28 - —
N,N-Dimethylaniline, dms., c.l., frt. alld lb. .28 - —
dms., l.c.l., same basis lb. .29 - —
tanks, same basis lb. .26 - —
N,N-Dimethylformamide, dms., c.l., t.l., works lb. .32½- —
dms., l.c.l., works lb. .33 - .34
tanks, works lb. .30 - —
2,4-Dinitroaniline, dms., frt. alld lb. .75 - —
Dinitroaniline orange toner, CP, bbls., dlvd. E. of Rockies. lb. 1.56 - —
Dinitroaniline orange toner prices 1c higher W. of Rockies.
m-Dinitrobenzene, 89°C., dms. lb. .36 - —
2,4-Dinitrochlorobenzene, crystallizing at 46½°C., dms., c.l., frt. alld. E lb. .17¼- —
dms., l.c.l., frt. alld. E. lb. .17¾- —
tanks, frt. alld. E. lb. .17 - —
2,4-Dinitrophenol bbls. lb. .41 - —
2,4-Dinitrotoluene, oil, dms. lb. .11 - —
Refd., 63°C., dms. lb. .23 - —
Dioctyl adipate, dms., c.l., works lb. .42½- —
dms., l.c.l., works lb. .43½- —
tanks, works lb. .40 - —
Dioctyl phthalate, dms., c.l., frt. alld lb. .28½- —
dms., l.c.l., frt. alld lb. .30 - —
tanktrucks, 1,000-1,999 gals., same basis lb. .26½- —
tankcars, tanktrucks, 2,000 gals., same basis lb. .26 - —
Dioctyl sebacate, dms., c.l., works. lb. .61¼- —
dms., l.c.l., works lb. .62¼- —
tanks, works, dlvd. lb. .62¼ —
1,4-Dioxane, dms., c.l., dlvd. E lb. .56¼- —
dms., l.c.l., dlvd. E. lb. .31½- —
tanks, dlvd. E. lb. .33 - —
Prices in the west are 2c. per lb. higher.
Dipentaerythritol, bgs., c.l., t.l., dlvd. E lb. .40 - —
Dipentene, dest.-dist., dms., c.l., works gal. .58 - —
dms., l.c.l., works lb. .62 - —
dms., l.c.l., ex whse. gal. .78 - —
tankscars, works gal. .41 - —
Steam dist., dms., c.l., works, South gal. .72 - —
dms., l.c.l., dlvd. New York gal. .91 - —
tanks, works, South lb. .55 - —
Dip oil (see Tar acid oil).
Diphenolic acid, 1,000-lb. or more, bgs., works lb. .75 - —
Diphenolic polyether acids, 1,000-lb. or more, bgs., works lb. 1.00 - —
Diphenyl, bgs., c.l., t.l., works lb. .16¾- —
bgs., l.c.l., works lb. .18½- —
tanks, works lb. .15¾- —
Diphenyl oxide, perfume grade, cns. lb. .55 - .70
Diphenyl phthalate, dms., c.l., works. lb. .51¾- —
dms., l.c.l., works lb. .53¾- —
Diphenylamine, refd., flake, bgs., c.l., works, frt. equald lb. .32 - —
bgs., l.c.l., same basis lb. .34 - —
Refd., fused, tanks, same basis. lb. .29 - —
Refd., diphenylamine in dms., ½c. per lb. higher.
Diphenylguanadine bgs., dms., ton lots, frt. alld lb. .49 - —
bgs., smaller lots frt. alld. lb. .50 - —
Diphenylhydantoin-sodium, USP, dms lb. 5.00 - 5.60
Dipropylene glycol, dms., c.l., frt. alld lb. .17 - —
dms., l.c.l., frt. alld. lb. .18½- —
tanks, frt. alld. lb. .14¼- —
Dipropylene glycol methyl ether, dms., c.l., dlvd. E lb. .20 - —
dms., l.c.l., same basis lb. .21½- —
tanks, same basis lb. .18½- —
Dithiodibenzoic acid, dms., 1,000-lb. lots, works lb. 1.45 - —
Di-o-tolylguanidine, dms., ton lots, frt. alld lb. .69 - —
dms., smaller lots, frt. alld lb. .70 - —
Di-o-tolylthiourea, tech., solid, dms., c.l., t.l., frt. alld lb. .55 - —
Divinylbenzene, 20-25%, dms., c.l., works, frt. equald lb. .20 - —
dms., l.c.l., same basis lb. .21 - —
tanks, same basis lb. .19 - —
80-60%, dms., c.l., works, 100% basis lb. 1.00 - —
dms., l.c.l., works, 100% basis. lb. 1.05 - —
tanks, same basis lb. .90 - —
Dodecenyl succinic anhydride, dms., c.l., t.l., dlvd. E lb. .75 - —
dms. l.c.l., l.t.l., same basis lb. .76 - —
Dodecylbenzene, dms., c.l., f.o.b., works, frt equald lb. .134 - —
dms., l.c.l., same basis lb. .144 - —
tanks, same basis lb. .11½- —
Dodecylphenol, c.l., frt. alld lb. .22½- —
dms., l.c.l., same basis lb. .23½- —
tanks, same basis lb. .20 - —
Dodecylphenol prices on shipments to Western States are 2c. per pound higher.
Dyes, coaltar, certified colors for food, drugs and cosmetics, 500-lb. and 1-lb. lots, dlvd.:
Blue, FD&C, No. 1 lb.15.65 -17.60
No. 2 lb.15.65 -17.60
Green, FD&C, No. 1 lb.15.65 -17.60
No. 2 lb.15.65 -17.60
No. 3 lb.19.60 -22.85
Red, FD&C, No. 1 lb.31.30 -35.90
No. 2 lb. 5.90 - 7.85
No. 3 lb. 3.30 - 4.10
No. 4 lb.19.60 -22.85
Dyes, coaltar, certified colors for drugs and cosmetics, 500-lb. and 1-lb. lots, dlvd:
Violet, FD&C, No. 1 lb.15 65 -17.60
Yellow, FD&C, No. 1 lb. 9.15 -11.05
No. 5 lb. 3.30 - 4.10
No. 6 lb. 3.30 - 4.10
Dyes, coaltar, certified colors for drugs and cosmetics, 200-lb. and 1-lb. lots, dlvd.:
Black, D&C, No. 1 lb.10.50 -10.95
Brown, D&C, No. 1 lb.15.65 -16.10
Green, D&C, No. 5 lb.15.65 -16.10
No. 6 lb.15.65 -16.10
No. 7 lb.15.65 -16.10
Orange, D&C, No. 3 lb.14.35 -14.80
No. 4 lb.10.50 -10.95
No. 5 lb.19.60 -20.05
Red, D&C, No. 17 lb 3.80 4.25
No. 18 lb.10.50 -10.95
No. 19 lb.23.60 -24.00
No. 21 lb.15.00 -15.45
No. 22 lb 3.90 4.35
No. 28 lb.10.50 -10.95
No. 33 lb.24.15 -24.65
Violet, D&C, No. 2 lb.17.00 -17.45
Yellow, D&C, No. 7 lb.15.65 -16.10
No. 8 lb.10.50 -10.95
No. 10 lb.10.50 -10.95
No. 11 lb.13.05 -13.50
Dyes, coaltar, certified colors for drugs and cosmetics, external use, 500-lb. and 1-lb. lots, dlvd.:
Blue, Ext., D&C, No. 1 lb.15.65 -16.10
Green, Ext., D&C, No. 1 lb.15.65 -16.10
Red, Ext., D&C, No. 1 lb.13.05 -13.50
Yellow, Ext, D&C, No. 1 lb.10.50 -10.95
Dyes, coaltar for general use in cloth dyeing (numbers are those of the Color index scale or prototype), contract dlvd. No.
11110 Brilliant scarlet BN lb. 1.79 - —
13390 Fast blue SR lb. 1.43 - —
14025 Yellow 2G lb. 1.26 - —
14030 Orange R, extra, conc. lb. 1.64 - —
14645 Chrome black T lb. .77 - —
14720 Rubine XX, conc. lb. 1.59 - —
15510 Orange Y, extra conc. lb. .83 - —
15575 Orange RR lb. .99 - —
15620 Fast Red A, conc lb. 1.61 - —
15703 Chrome blue black R, conc. lb. 1.12 - —
16150 Scarlet 2RL lb. 1.22 - —
16255 Brilliant scarlet 3RN, conc. lb. 1.26 - —
16230 Fast light, orange 2G lb. 1.39 - —
17590 Brown PG lb. 3.00 - —
17650 Phloxine 2G lb. 1.05 - —
18055 Fuchsine 6B lb. 1.55 - —
18965 Fast yellow 2G lb. 2.32 - —
19140 Yellow XX lb. 2.48 - —
19555 Yellow NN, conc. lb. 3.67 - —
20170 Brown Y lb. 1.53 - —
20470 Blue black, extra, conc lb. 1.44 - —
21010 Brown, RX, conc. lb. 1.35 - —
22120 Scarlet B lb. 2.81 - —
22310 Red FC lb. 1.57 - —
22311 Brown MCW lb. 1.47 - —
22610 Blue 2B, extra conc. lb. 1.53 - —
23500 Red 4BX conc. lb. 1.80 - —
24410 Sky blue FF, extra, conc. lb. 1.95 - —
24895 Brilliant yellow, conc. lb. 3.27 - —
26360 Navy blue 3R, conc. lb. 1.84 - —
26695 Black F, conc. lb. 2.30 - —
26900 Milling Red 3R, conc lb. 2.24 - —
27075 Neutral black 2B, conc lb. 2.75 - —
27720 Gray L lb. 2.18 - —
29185 Fast scarlet 4BNC lb. 2.23 - —
30015 Diazo black VJ conc. lb. 2.48 - —
30045 Yellow brown K, extra lb. 1.26 - —
30235 Black EB, 200% lb. 1.33 - —
30295 Green BY, conc. lb. 1.07 - —
35660 Brown B lb. 2.89 - —
37565 Naphthol SWF lb. 1.85 - —
40000 Yellow 2G lb. 1.44 - —
41000 Yellow OX lb. 2.45 - —
42000 Green V, crystals lb. 2.73 - —
42040 Brilliant green G crystals lb. 3.62 - —
42090 Blue EG lb. 1.85 - —
42100 Milling green 6B, conc. lb. 4.78 - —
42540 Violet 4BXN lb. 2.43 - —
43830 Brilliant blue, BBG lb. 2.44 - —
44045 Blue B, extra conc. lb. 3.61 - —
45170 Red BX lb. 4.76 - —
50415 Nigrosine SSJ lb. 1.03 - —
52015 Blue GXX lb. 2.33 - —
56005 Alizarin red SC lb. 3.64 - —
59700 Golden orange GFD, single paste lb. 2.70 - —
59710 Flaming orange 6RD double powder lb. 4.90 - —
59800 Dark blue BO, single paste. lb. 2.28 - —
59825 Jade green NC supra, double paste lb. 1.50 - —
61570 Alizarin green CG extra lb. 3.81 - —
63010 Alizarin blue SAPG lb. 3.90 - —
63615 Alizarin blue black B lb. 3.26 - —
69825 Blue BLFD double paste lb. 2.82 - —
70805 Brown BR single paste lb. 2.03 - —
Dyes, coaltar, oil-soluble, 100-lb. drums, dlvd. No.
12140 Oil scarlet BL lb. 1.87 - —
12055 Oil orange 7078 V lb. 1.38 - —
26120 Oil red N 1700 lb. 1.94 - —
42535B Methyl violet base lb. 1.88 - —
44045B Victoria blue base lb. 4.06 - —
50415B Oil black 8603 lb. .80 - —
61565 Alizarin cyanine green base. lb. 6.13 - —
Spirit black RB lb. 3.89 - —
Spirit brown GN lb. 5.30 - —
Spirit orange R conc. lb. 5.87 - —
Spirit red B conc. lb. 6.41 - —
Pr. 517 Spirit yellow 2R conc lb. 4.62 - —
Pr. 554 Spirit blue THN lb. 5.06 - —

E

Echinacea root, bls. lb. 1.25 - —
Elm bark, grinding, bls. lb. .30 - .32
Powd., bbls., Pxs lb. .60 - —
Select, bundles lb. .75 - —
Emetine hydrochloride, USP, bots. oz.48.40 - —
Endrin, tech., dms., 100-lbs. or more, 100% basis, dlvd. lb. 2.70 - —
Eosin red toner, bbls., works lb. 1.95 - —
Ephedrine, syn., USP, anhyd., bots. 100-oz. lots oz. .93 - 1.00
hydrous, bots., 100-oz. lots. oz. .92 - —
Ephedrine hydrochloride, NF, dms., 100-oz. f.o.b. works oz. .72 - —
Ephedrine sulfate, USP, cryst., dms., 100-oz. f.o.b. works oz. .73 - —
USP, powd., dms., 100-oz., same basis oz. .73 - —
Epichlorohydrin, dms., c.l., dlvd lb. .29½- —
dms., l.c.l., dlvd. lb. .31 - —
tanks, dlvd. lb. .27 - —
l-Epinephrine base, syn., USP, bots., 100 gram lots gram. .58 - —
Epsom salt (see Magnesium sulfate).
Erigeron oil, cns. lb.11.00 - —
Ergot, NF, dms., tin-lined lb. 1.00 - 1.25
Eserine salicylate, bots. oz.44.00 - —
Eserine sulfate, bots. oz.86.00 - —
Ester gum, gum-rosin type, dms., c.l., dlvd., Ill., Md., Ky., E. States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W Va. lb. .18½- —
Wood-rosin type, dms., c.l., same basis lb. .18½- —
Ether (see specific product)
Ethyl acetate, nat., ferment, 85-88%, dms., c.l., dlvd lb. .15 - —
dms., l.c.l., dlvd. lb. .16½- —
tanks, dlvd. lb. .12½- —
95-98%, dms., c.l., dlvd. lb. .15¼- —
dms., l.c.l., dlvd. lb. .16¾- —
tanks, dlvd. lb. .12¾- —
Ethyl acetate, nat., ferment, 99%, dms., c.l., dlvd lb. .15½- —
dms., l.c.l., dlvd. lb. .17 - —
tanks, dlvd. lb. .13 - —
syn., 85-88%, dms., c.l., dlvd lb. .15 - —
dms., l.c.l., dlvd. lb. .16½- —
tanks, dlvd. lb. .12½- —
Ethyl acetate, syn., 95-98%, dms., c.l., dlvd lb. .15¼- —
dms., l.c.l., dlvd. lb. .16¾- —
tanks, dlvd lb. .12¾- —
99%, dms., c.l., dlvd. lb. .15½- —
dms., l.c.l., dlvd. lb. .17 - —
tanks dlvd. lb. .13 - —
Ethyl acetoacetate, dms., c.l., dlvd. lb. 58½- —
dms., l.c.l., dlvd.. lb. .60 - —
tanks, dlvd lb. .56 - —
Ethyl acrylate, dms., c.l., t.l., dlvd. lb. .36 - —
dms., l.t.l., dlvd. lb. .37 - —
tanks, dlvd lb. .34 - —
Ethyl alcohol, 190 pf., USP, tax paid dms, c.l., dlvd. E. of Rockies gal.20.63 - —
dms., l.c.l., same basis gal..20.73 -20.84
Ethyl alcohol, 190 pt., USP, tax-tree, dms., c.l., dlvd. E. of Rockies gal. .68 - —
dms., l.c.l., same basis gal. .78 - .89
tanks, same basis gal. .52 - —
Ethyl alcohol, absolute, 200 pf., tax paid, dms., dlvd. E. of Rockies gal.21 75 - —
dms., l.c.l., same basis gal.21.85 -21.96
tanks, same basis gal.21.59 - —
Ethyl alcohol, denatured (see Denatured alcohol, ethyl).
Ethyl aminobenzoate, USP (see Benzocaine).
Ethyl amyl ketone, dms., c.l., dlvd. lb. .20 - —
dms., l.c.l., same basis lb. .21½ - —
tanks, same basis lb. .17½ - —
Ethyl benzoate, bcls. lb. .75 - 1.00
Ethyl bromide, tech., 98%, dms., c.l., frt. alld. E lb. .43 - —
dms., l.c.l., frt. alld. E lb. .45 - —
tanks, frt. alld. E lb. .41 - —
Ethyl butyl ketone, dms., c.l., t.l., works lb. .36 - —
dms., l.c.l., t.l. works lb. .36¾- —
tanks, works lb. .34 - —
Ethyl butyrate, dms., works lb. .85 - 1.00
Ethyl carbamate (see Urethane).
Ethyl cellulose, vis. ½ cps., bgs., 5,000-lb. lots or more, frt. alld. E lb. .73 - —
Vis 10. 20. 50 100, 150 cps., bgs., 5,000-lb. lots or more, frt. alld. E lb. .68 - —
bgs., smaller lots, frt. alld E lb. .70 - —
Ethyl chloride, tech., cyls., works. lb. .20 - .22
dms., works lb. .18 - .20
tanks, works lb. .10 - —
Ethyl cinnamate, cns. lb. 3.35 - 3.50
Ethyl ethanolamies, mixed, dms., c.l., dlvd. E. lb. .43½- —
dms., l.c.l., dlvd. E lb. .44½- —
tanks, dlvd. E lb. .41½- —
Ethyl ether, absolute, ACS, dms lb. .27 - —
Anesthesia, USP, dealers, 1-lb. cns. lb. 1.01 - —
½-lb. cns lb. 1.09 - —
¼-lb. cns. lb. 1.21 - —
Indust., dms., c.l., dlvd. lb. .13½- —
dms., l.c.l., dlvd. E. lb. .15 - —
tanks, dlvd E. lb. .11 - —
2-Ethyl hexoic acid, dms., c.l., t.l., dlvd. E lb. .37 - —
dms., l.c.l., l.t.l., dlvd. E lb. .38½- —
tanks, dlvd. E. lb. .34½- —
2-Ethyl hexoic acid, 1c. higher W. of Rockies.
2-Ethyl hexyl acrylate, dms., c.l., t.l., straight or mixed frt. alld. E lb. .42½- —
dms., l.t.l., same basis lb. .43½- —
tanks, same basis lb. .40 - —
Prices of 2-ethylhexyl acrylate are 1½c. per lb. higher in Ariz., Calif., Idaho, Nev., Ore., Utah and Wash.
2-Ethylhexyl alcohol, dms., c.l., dlvd. lb. .23¾- —
dms., l.c.l, dlvd lb. .25¼- —
tanks, dlvd. lb. .21¼- —
Ethyl iodide, cbys., works lb. 3.30 - —
Ethyl methacrylate, dms., c.l., frt. equald lb. .52 - —
dms., l.t.l., frt. equald lb. .52½- —
tanks, frt. equald lb. .50 - —
Ethyl morphine hydrochloride, USP, bots oz.11.85 - —
Ethyl oenanthate, dms lb. 1.05 - 1.30
Ethyl oxalate (see Diethyl oxalate).
Ethyl silicate, dist. (see Tetraethyl orthosilicate).
Ethyl silicate, 40% available SiO, dms., c.l., dlvd. lb. .44¼- —
dms., l.c.l., dlvd lb. .46 - —
tanks, dlvd lb. .42 - —
N-Ethyl-a-naphthylamine, dms., works. lb. 1.04 - —
N-Ethyl-m-toluidine, tech., liq., tanks, frt. alld. lb. .83 - —
N-Ethyl-o-toluidine, bbls lb. .88 - —
Ethylamine (see Mono-, Di-, or Tri-)
N-Ethylaniline, dms., c.l., frt. alld. lb. .57 - —
dms., l.c.l., frt. alld lb. .58 - —
tanks, frt. alld lb. .55 - —
Ethylbenzene, 99%, dms., c.l., t.l., frt. equald lb. .15 - —
dms., l.c.l., same basis lb. .17 - —
tanks, same basis lb. .12½- —
2-Ethylbutyl alcohol, dms., c.l., works lb. .30 - —
dms., l.c.l., works lb. .30¾- —
tanks, works lb. .28 - —
Ethylene, contract, refy. gate lb. .0475- .0525

Ethylene dibromide, dms., c.l., frt. equald..lb. .30¼- —
dms., l.c.l., frt. equald..lb. .31¼- —
tanks, frt. equald..lb. .28½- —
Ethylene dichloride, dms., c.l., dlvd. lb .11¼- —
dms., l.c.l., same basis..lb. .13 - —
tanks, same basis..lb. .09 - —
Ethylene dichloride prices W. of Rockies, 1c. per lb. higher.
Ethylene glycol, indust., dms., c.l., dlvd. E..lb. .16 - —
dms., l.c.l., same basis..lb. .17½- —
tanks, same basis..lb. .13½- —
Ethylene glycol monobutyl ether, dms., c.l., dlvd. E..lb. .22 - —
dms., l.c.l., dlvd. E..lb. .23½- —
tanks, dlvd. E..lb. .19½- —
Ethylene glycol monoethyl ether, dms., c.l., dlvd. E..lb. .21 - —
dms., l.c.l., dlvd. E..lb. .22½- —
tanks, dlvd. E..lb. .18½- —
Ethylene glycol monoethyl ether acetate, dms., c.l., dlvd. E..lb. .19½- —
dms., l.c.l., dlvd. E..lb. .20½- —
tanks, dlvd. E..lb. .17 - —
Ethylene glycol monomethyl etner, dms., c.l., dlvd. E..lb. .21 - —
dms., l.c.l., dlvd. E..lb. .22½- —
tanks, dlvd. E..lb. .18½- —
Ethylene glycol monomethyl ether acetate, dms., c.l., dlvd. E..lb. .29 - —
dms., l.c.l., dlvd. E..lb. .29¾- —
tanks, dlvd. E..lb. .27 - —
Ethylene glycol monostearate, tripie pressed, dms..lb. .33 - .35
Ethylene oxide, dms., c.l., dlvd. E. lb. .21½- —
dms., l.c.l., dlvd. E..lb. .24½- —
tanks, dlvd. E..lb. .15½- —
Ethylene trichloride (see Trichloro-ethylene).
Ethylenediamine, 85-88%, dms., c.l., dlvd. E., 100% basis..lb. .42 - —
dms., l.c.l., dlvd. E., 100% basis. lb. .43 - —
tanks, dlvd. E., 100% basis..lb. .40 - —
lots and over..lb. 6.75 - —
200-lb. lots and over..lb. 7.00 - —
100-lb. lots and smaller..lb. 7.30 - 7.40
Ethyl vanillin, 100-lb. fib. dms., 500-lb..lb. 5.65 - —
less than 500-lb..lb. 6.10 - —
Eucalyptol, USP, cns., dms..lb. .85 - 1.40
Eucalyptus oil, NF, rectified, 70-75%, dms..lb. .45 - —
NF, rectified, 80-85%, dms..lb. .53 - .62
Eugenol, tech., dms..lb. 1.45 - —
USP, dms..lb. 2.00 - —
Euphorbia herb, bls..lb. .12 - .15

F

F salt paste, tech. dms., works..lb. 2.30 - —
Feldspar, 140-200 mesh, bulk, c.l., works ton.19.50 - —
Feldspar in bags $3 per ton higher
Fennel oil, sweet, USP, cns..lb. 2.60 - —
Fennel seed, Argentine, bgs..lb. .16 - —
French, light, bgs..lb. .16 - —
Indian, light, bgs..lb. .17½- —
Rumanian, bgs..lb. .14 - —
Yugoslav, light, bgs..lb. .16½- —
Fenugreek seed, Moroccan, bgs lb. .08 - —
Ferric chloride, anhyd., tech., dms., c.l., works..100 lbs. 7.50 - —
dms., l.c.l., works..100 lbs. 8.50 - —
Ferric chloride, indust., cryst., bbls., c.l., works..100 lbs. 5.25 - 6.75
bbls., l.c.l., works 100 lbs. 5.75 - 7.25
42° Be., photo grade, cbys., c.l., works 100 lbs. 7.25 - 8.25
sewage grade, tanks, frt. equald. 100% basis 100 lbs. 4.00 - —
USP, cryst., dms., t.l., works..lb. .08½- —
Ferric citrate gran., dms..lb. .86 - —
Ferric hypophosphite, NF, dms..lb. 3.45 - —
Ferric naphthenate, liq., 6% Fe, dms., frt. alld..lb. .28¼- —
Ferric oxalate, tech., gran., 50-lb. dm., f.o.b. works E..lb. .89 - —
Ferric oxides (see iron oxides).
Ferric phosphate, NF, soluble, gran. pearls, cs..lb. .72 - .75
Ferric pyrophosphate, NF VII, soluble, gran., pearls, dms.lb. .70 - —
Ferric resinate, 6¾% Fe., dms., ton lots, frt. ald..lb. .40¼- —
Ferric stearate, dms., c.l., frt. alld. lb. .39 - —
dms., l.c.l., frt. alld..lb. .40 - .44
Ferric sulfate, partly hydrated, bgs., c.l., works..ton.35.25 - —
bgs., l.c.l., works..ton.36.25 - 42.25
bulk, c.l., works..ton.33.25 - —
Ferric-ammonium citrate, brown, pearls, NF, gran., dms..lb. .65 - .68
Green pearls, USP XII, gran., dms..lb. .66 - .69
Ferric-ammonium oxalate, fine gran., dms..lb. .27½- .29½
Ferric-potassium oxalate, fine gran., dms..lb. .32½- .34½
Ferric-sodium oxalate, fine gran., dms..lb. .27½- .29½
Ferrous gluconate, USP, 200-lb. dm., frt. equald..lb. .96 - —
Ferrous sulfate, gran., bgs., c.l., works..ton.34.50 - —
bgs., l.c.l., dlvd. Metropolitan area..100 lbs. 3.35 - 4.25
bbls., c.l., works..ton.40.00 - —
bulk, c.l., works..ton.27.00 - —
USP, cryst., bbls., dms..lb. .09½- .10
Fir balsam, Canada, bbls..gal.32.00 - 35.00
Oregon, bbls..gal. 3.40 - 4.64
Fir oil, Canada, cns..lb. 1.75 - 2.50
Fish oil, refd., alkali, dms..lb. .1300- .1350
Kettle-bodied, dms..lb. .1530- .1580
Light-pressed, dms..lb. .1150- .1200
tanks..lb. .10 - —
Fishliver oil, nat., high potency, 100,000 to 1,500,000 A units per gram, dms..1,000,000 units. .12 - —
Fishmeal, dom., menhaden, 60% protein, grd., bgs., Atlantic and Gulf coasts..ton.92.00 - —
Fishscrap, dom., menhaden, dried, 60% protein, grd., bgs., Atlantic and Gulf coasts. ton.88.00 - —
Fleaseed (see Psyllium seed).
Folic acid, USP, bots., fib. dms., kilo lots or more..gram. .30 - .44
10% feed grade, fib. dms., 3 kilos or more..kilo.30.00 - 44.00
Formaldehyde, 37% (inhibited, 12 to 15% methanol), USP, dms., c.l., dlvd..lb. .0695- —
tanks, dlvd..lb. .0430- —
Formaldehyde, methanol-free (uninhibited), tanks, dlvd..lb. .0375- —
Formic acid, 85%, cbys., c.l., works. lb. .1570- —
cbys., l.c.l., works..lb. .1620- .1720
90%, cbys., c.l., works..lb. .1625- —
cbys., l.c.l., works..lb. .1675- .1775
Fringetree bark, bls..lb. .65 - .70
Fumaric acid, tech., 250-lb. dms., c.l., frt. equald..lb. .23¼- —
dms., l.c.l., frt. equald..lb. .24¾- —
Fumaric acid in bags ½c. per lb. less.

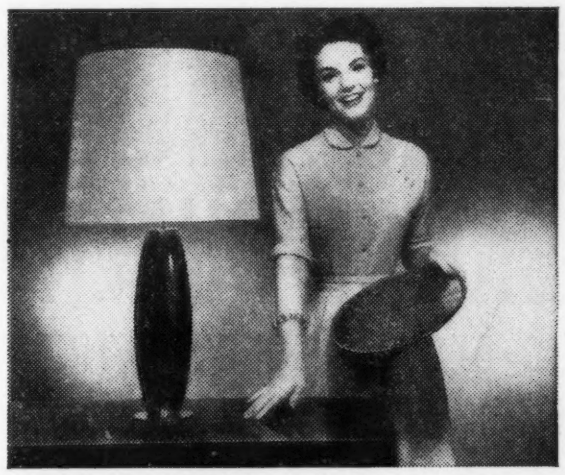
Furfural, dms., c.l., works..lb. .12 - —
dms., l.c.l., works..lb. .14 - —
tanks, dlvd. E..lb. .11½- —
tanks, dlvd. W..lb. .12½- —
Furfuryl alcohol, cns., works..lb. .28 - —
dms., c.l., t.l., Newark, N. J..lb. .20½- —
dms., l.c.l., l.t.l., Newark, N. J..lb. .21½- —
dms., c.l., t.l., Memphis, Tenn..lb. .19 - —
dms., l.c.l., l.t.l., Memphis, Tenn.lb. .20 - —
tanks, Memphis, Tenn..lb. .175 - —
Fusel oil, refd., dms., c.l., dlvd..lb. .18 - —
dms., l.c.l., dlvd..lb. .19½- —
tanks, dlvd..lb. .15½- —

G

G salt, bbls., frt. alld., 100% basis.lb. .73 - —
Gallic acid, NF, VII, bbls., 1,000-lb. lots..lb. 2.00 - —
bbls., smaller lots..lb. 2.02 - 2.22
Tech., bbls., 1,000-lb. lots..lb. 1.78 - —
bbls., smaller lots..lb. 1.80 - 2.00
Gamma acid, dry grd., bbls., frt. alld..lb. 1.75 - —
Gammapicoline (see g-picoline).
Garlic oil, dom., bots..oz. 4.75 - 6.05
Imp., bots..oz. 4.50 - 5.00
Gaultheria oil (see Wintergreen oil).
Gelatin, edible, 75 AOAC test, bbls., c.l., dlvd..lb. .55 - —
150 AOAC test, bbls., c.l., dlvd. lb. .64 - —
200 AOAC test, bbls., c.l., dlvd. lb. .70 - —
225 AOAC test, bbls., c.l., dlvd. lb. .74 - —
275 AOAC test, bbls., c.l., dlvd. lb. .82 - —
Gelsenium root, bls..lb. .30 - .35
Gentian root, bls..lb. .24 - —
Grd., bbls., bxs..lb. .30 - —
Powd., bbls., bxs..lb. .30 - —

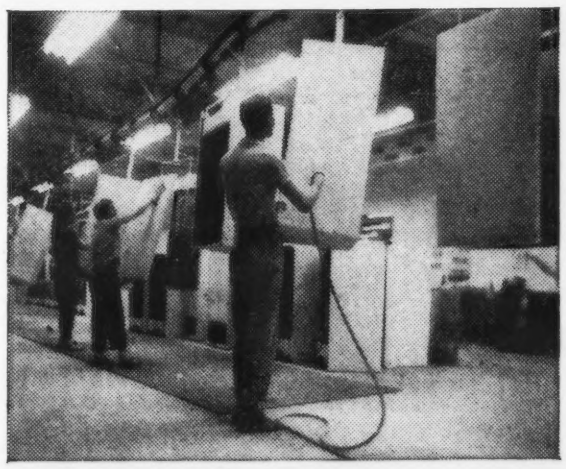
Geraniol, extra, cns., dms..lb. 1.75 - 2.40
Soap grade, dms..lb. .90 - 1.75
Standard, cns., dms..lb. 1.65 - —
Synthetic, dms..lb. 1.30 - —
Geranium oil, Algerian, cns..lb.23.00 - —
Bourbon, cns..lb.28.00 - —
Geranium oil, Turkish (see Palmarosa oil).
Geranyl acetate, cns..lb. 1.90 - 2.70
Synthetic, dms..lb. 1.45 - —
Ginger oil, dist., bots..lb.11.50 -14.00
Ginger oleoresin, NF, from African root, bots..lb. 4.25 - 5.00
NF, from Jamaican root, bots. lb. 7.75 - —
Ginger root, Cochin, bgs..lb. .29 - —
Jamaican, No. 3, bgs..lb. .28 - —
Nigerian, split, bgs..lb. .20 - —
Sierra Leone, bgs..lb. .32 - —
Glauber's salt (see Sodium sulfate).
Gluconic acid tech., 50%, dms., c.l., t.l., f.o.b. works..lb. .20 - —
dms., l.c.l., f.o.b. works..lb. .21 - —
tanks, f.o.b. works..lb. .17 - —
Glue, bone, extracted, dry bone, 86 jellygrams, bgs., c.l., dlvd..lb. .16 - —
131 jellygrams, bgs., c.l., same basis..lb. .16½- —
164 jellygrams, bgs., c.l., same basis..lb. .18½- —
191 jellygrams, bgs., c.l., same basis..lb. .19½- —
222 jellygrams, bgs., c.l., same basis lb. .21 - —
Glue, bone, green, 40 jellygrams, bgs., c.l., same basis..lb. .16 - —
86 jellygrams, bgs., c.l., same basis..lb. .16 - —
115 jellygrams, bgs., c.l., same basis..lb. .16½- —

Glue, bone, green, 135 jellygrams, bgs., c.l., same basis..lb. .17½- —
164 jellygrams, bgs., c.l., same basis lb. .18½- —
180 jellygrams, bgs., c.l., same basis lb. .19½- —
200 jellygrams, bgs., c.l., same basis lb. .20½- —
Bone glue, l.c.l., prices 2c. higher.
Glue, hide, 70-94 jellygrams, bgs., c.l., dlvd lb. .18 - —
95-149, bgs., c.l., dlvd..lb. .19 - —
122-149, bgs., c.l., dlvd..lb. .20½- —
150-177, bgs., c.l., dlvd..lb. .22½- —
178-206, bgs., c.l., dlvd..lb. .25 - —
Glue, hide, 207-236, bgs., c.l., dlvd lb. .28 - —
237-266, bgs., c.l., dlvd..lb. .30½- —
267-298, bgs., c.l., dlvd..lb. .32½- —
299-330, bgs., c.l., dlvd..lb. .34½- —
331-362, bgs., c.l., dlvd..lb. .36½- —
363-394, bgs., c.l., dlvd..lb. .38 - —
395-427, bgs., c.l., dlvd..lb. .40 - —
428-460, bgs., c.l., dlvd..lb. .42 - —
461-494, bgs., c.l., dlvd..lb. .44 - —
495-529, bgs., c.l., dlvd..lb. .46 - —
Hide glue, l.c.l., prices 2c. higher.
l-Glutamic acid, 99½%, fib. dms., 100-lb. lots, frt. alld..lb. 1.80 - —
fib. dms., 25-lb. lots, frt. alld. lb. 1.88 - —
l-Glutamine, bots., 1-9 kilo lots, kilo.150.00 -300.00
Bots., 50-kilo lots..kilo.100.00 - —
Bots., 500-kilo lots..kilo. 75.00 - —

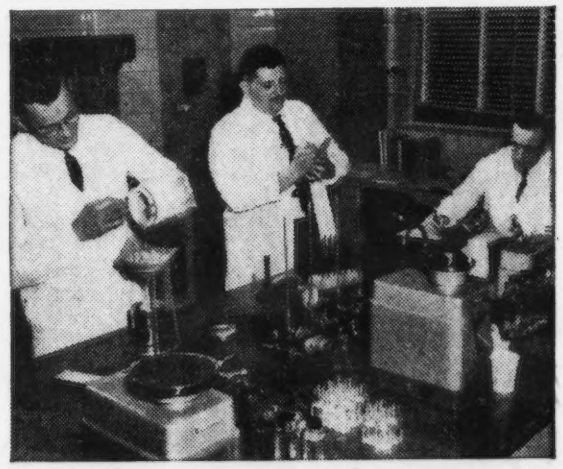


METHYL ETHYL KETONE— A solvent used in the manufacture of many lacquers which provide durable surface coatings for fine furniture. Of high purity and low water-content, it can provide maximum solvent power at low cost.

DICYCLOPENTADIENE — Used as an extender for drying oils in varnish manufacture, it reduces the cost of the finished product. As a modifier for semi-drying oils, it upgrades them by approaching drying oils in reaction and drying time.



NEW BUTON* RESINS—Formerly called C-Oil and Butoxy Resins, they are highly compatible with a broad range of modifiers and solvents. Their properties include excellent adhesion, high gloss and high abrasion resistance.



TECHNICAL ASSISTANCE — At the Enjay Buton testing laboratory the most modern equipment and methods are always at work to help customers in the solution of technical problems and new product applications.

HOW ENJAY SERVES...the surface coatings industry

Enjay offers the surface coatings industry the following high quality materials for all types of surface coatings, paints, lacquers and varnishes: Ethyl Alcohol • Isopropyl Alcohol • Secondary Butyl Alcohol • Ethyl Acetate • Isopropyl Acetate • Secondary Butyl Acetate • Acetone • Methyl Ethyl Ketone • Dicyclopentadiene • Butadiene • CTLA Polymer • Naphthenic Acid • New Buton Resins. For technical assistance or to order Enjay chemicals contact the nearest Enjay office.

HOME OFFICE: 15 West 51st Street, New York 19, New York. OTHER OFFICES: Akron • Boston • Charlotte • Chicago • Houston • Los Angeles • New Orleans • Plainfield, N. J. • Southfield, Mich. • Tulsa *Trademark

EXCITING NEW PRODUCTS THROUGH PETRO-CHEMISTRY

ENJAY CHEMICAL COMPANY

A DIVISION OF HUMBLE OIL & REFINING COMPANY

ENJAY PETROCHEMICALS

Glycerine, dom., nat., crude, saponification, 88%, tanks, dlvd. lb. .20 - —
nat., crude, soapiye, 80%, tanks, dlvd. lb. .18 - .18¼
nat., refd., USP, CP, 99%, dms., c.l., dlvd. lb. .30⅞- —
dms., l.c.l., dlvd. lb. .31⅝- —
tanks, dlvd. lb. .29⅛- —
Glycerine, dom., nat., refd., USP, CP, 96%, dms., c.l., dlvd. lb. .30 - —
dms., l.c.l., dlvd. lb. .30¾- —
tanks, dlvd. lb. .28¼- —
nat., high gravity, dms., c.l., dlvd. lb. .30¾- —
dms., l.c.l., dlvd. lb. .31½- —
tanks, dlvd. lb. .29 - —
Glycerine, dom., syn., dms., c.l., dlvd. lb. .31 - —
dms., l.c.l., dlvd. lb. .31¾- —
tanks, dlvd. lb. .29¼- —
Imp., nat., crude, soaplye, 80%, c.i.f. lb. .17½- —
Glycine (see Aminoacetic acid).
Glycerol (see Glycerine).
Glycolic acid (see Hydroxyacetic acid).
Glycolonitrile, 70%, aqueous, dms., c.l., t.l., works lb. .40 - —
dms., l.c.l., same basis lb. .42 - —
tanks, same basis lb. .39 - —
Glyoxal, 30%, dms., c.l., works lb. .20½- —
dms., l.c.l., works lb. .21¼- —
tanks, works lb. .18 - —
Golden seal root, NF, tested, bls. lb. 3.10 - —
Gramicidin, 1 to 5 kilos, f.o.b. works, gram 4.70 - —
Grapefruit oil, dms. lb. 4.50 - —
Graphite, amorp., powd., bgs., fib. dms., ex whse lb. .06 - .09½
Cryst., 88-90%, powd., bgs., fib. dms., ex whse lb. .19 - .21½
90-92%, powd., bgs., fib. dms., ex whse lb. .21 - .24½
95-97%, powd., bgs., fib. dms., ex whse lb. .29 - .31½
Flake, No. 1, 90-95%, bgs., fib. dms., ex whse lb. .29 .31
No. 2, 90-95%, bgs., fib. dms., ex whse lb. .29 - .31
Grease, white, choice all hog, tanks, dlvd. lb. .07¼- —
Yellow, tanks, dlvd. lb. .04¾- .04⅞
Grease oil, No. 1, dms., c.l. lb. .13¾- —
dms., l.c.l. lb. .14¾- .15¼
Extra winter, strained, dms., c.l. lb. .16¼- —
dms., l.c.l. lb. .17¼- .18¼
Prime, burning, dms., c.l. lb. .17¾- —
dms., l.c.l. lb. .18¾- .19¼

GREEN PIGMENTS
Green pigment quotations are listed individually. For example, prices on Green, chrome, may be found in the C's under Chrome green.

Grindelia robusta herb, bls. lb. .40 - —
Guaiacol, NF, cryst., dms., tins lb. 2.10 - 2.15
NF, liq., cbys., dms. lb. 2.30 - 2.40
Guaiacwood oil, cns. lb. .63 - .80
Guaiacol carbonate, NF VII, dms lb. 3.40 - 3.45
Guar gum, food grade, bgs., c.l. lb. .38 - —
bgs., 5,000 lbs or more lb. .39 - —
Indust., bgs., c.l. lb. .32 - —
Tech grade, bgs. lb. .30 - .33

GUMS
Gum quotations are listed individually. For example, prices on Gum, Dammar, may be found in the D's under Dammar gum.

H

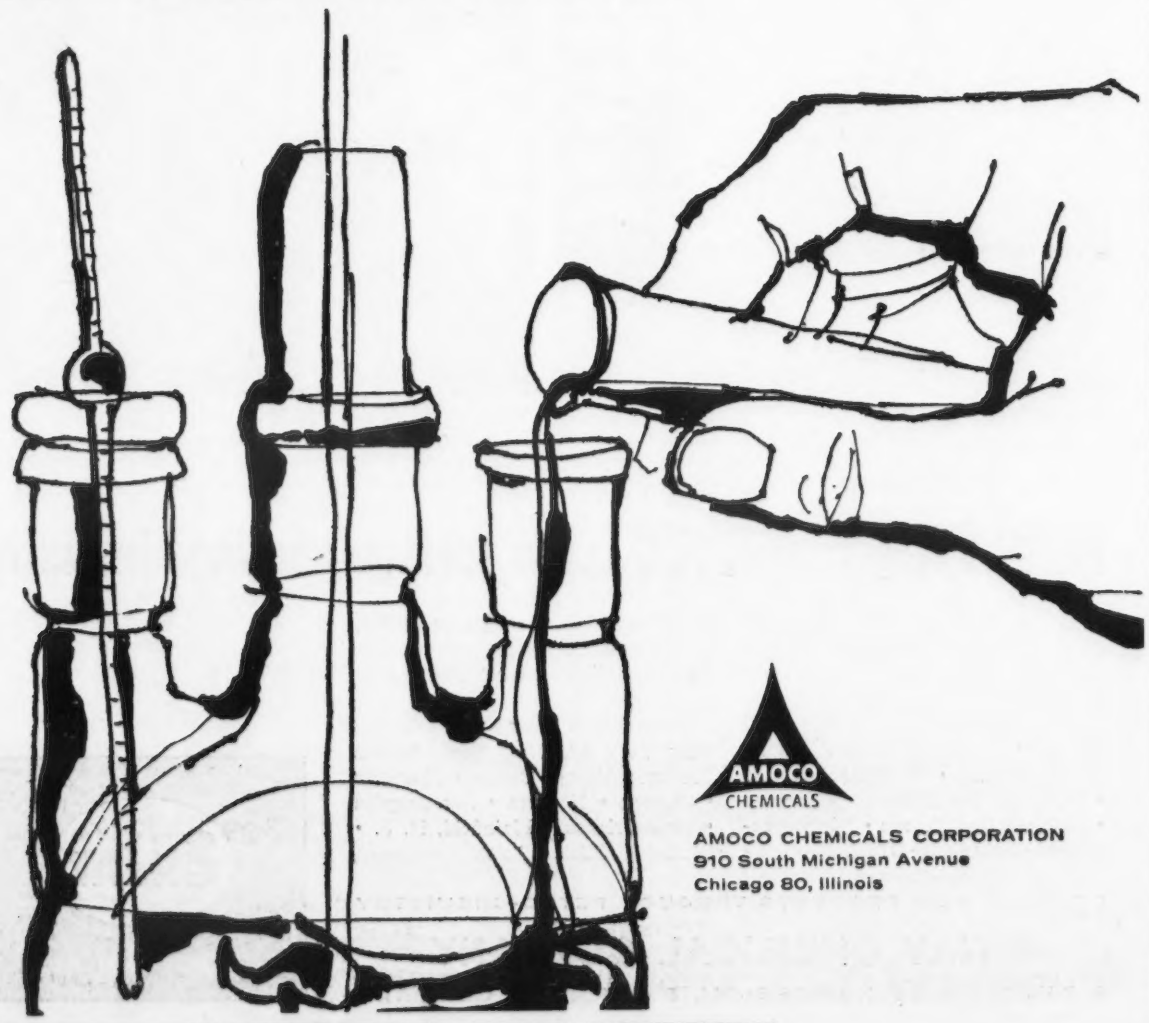
H acid, dry, bbls., c.l., frt. alld., 100% basis lb. 1.00 - —
bbls., l.c.l., same basis lb. 1.05 - —
Hansa yellow, 10 G, bbls., dlvd. E. of Rockies lb. 2.45 - —
Hansa G yellow, pigment, bbls. lb. 2.20 - —
Hawthorn berries, bgs. lb. .18 - .20
Heliotropin, 100-lb. lots, dms. lb. 2.60 - 3.40
Hellebore root, dom., green, bls lb. .70 - .75
Helonias root, bls. lb. 1.50 - —
Hemlock oil, cns. lb. 2.55 - 3.00
Henbane leaves, bls lb. .40 - .45
Heptachlor, dms., c.l., t.l., frt. alld., 100% basis lb. .96 - —
Heptane, indust., tankcars, New Jersey and New York gal. .20 - —
Houston, Texas gal. .1625- —
Hesperidin, purif., 100-lb. fib. dms., f.o.b., works lb. 8.95 - —
Hesperidin methylchalcone, bots., 50-lb. lots, works lb. 22.50 - —
bots., 5-lb. lots, works lb. 23.00 - —
bots., 1-lb. lots, works lb. 23.50 - —
Hexachlorophene, dms., 1,100 lbs. or more lb. 1.84 - —
dms., to 1,100 lbs. lb. 1.94 - —
Hexalin (see Cyclohexanol).
Hexamethylenetetramine, tech., bgs., 20,000-lb. lots or more, Perth Amboy or New York City lb. .233 - —
Hexamethylenetetramine, tech., bgs., 1,000-19,999-lb. lots, same basis lb. .243 - —
bgs., smaller lots, same basis lb. .253 - —
fib. dms., 1,000-lb. lots or more, same basis lb. .250 - —
fib. dms., smaller lots, same basis lb. .253 - —
Hexamethylenetetramine, USP, bgs., 500 lbs. or more, f.o.b. Fords, N. J., dlvd. New York City and Philadelphia lb. .42½- —
bgs., smaller lots, same basis lb. .43½- .48½
Hexane, industrial, tankcars, New Jersey and New York gal. .20 - —
Houston, Texas gal. .16 - —
1-Hexanol, dms., c.l., works lb. .35 - —
dms., l.c.l., works lb. .35¾- —
tanks, works lb. .33 - —
Hexyl cinnamic aldehyde, dms lb. 4.00 - 7.50
n-Hexyl methacrylate, dms., c.l., works lb. .75½- —
dms., l.c.l., works lb. .76 - —
Hexyl salicylate, dms. lb. 1.75 - —
Hexylene glycol, dms., c.l., dlvd lb. .17½- —
dms., l.c.l., dlvd. lb. .19 - —
tanks, dlvd. lb. .15 - —
Hexylresorcinol, USP, dms., 25-lb. lots or more, dlvd lb. 14.00 - —
dms., smaller lots, dlvd. lb. 14.50 - —
Homatropine hydrobromide, USP, bots oz. 3.25 - —
Homatropine methylbromide, USP, bots oz. 3.25 - —
Hoofmeal, 17-18% ammonia, bulk, c.l., Chicago unit-ton. 6.75 - —
Horehound herb, bls. lb. .18 - .20
Hydrastis (see Goldenseal).
Hydrazine hydrate, 85% ret. dms., works lb. 1.35 - 1.55
100%, ret. dms., works lb. 1.60 - 1.90
Hydriodic acid, purif., 47%, 2-cbys., f.o.b. works lb. 2.92 - —
Hydroabietyl alcohol, tech., solid, dms., c.l., dlvd. zone 1 lb. .29¼- —
dms., l.c.l., dlvd. zone 1 lb. .29¾- .30¼
tanks, dlvd. zone 1 lb. .27¼- —
Zone 1 for hydroabieyl alcohol comprises all of continental US except Ariz., Calif., Colo., Idaho, Mont., Nev., N. M., Ore., Utah, Wash., Wyo., and the western part of Texas.
Hydrobromic acid, medicinal, 48%, cbys., frt. equald lb. .48 - .56
Hydrochloric acid, anhyd. (see Hydrogen chloride).
Hydrochloric acid, 18°, cbys., c.l., works 100 lbs. 2.50 - —
cbys., l.c.l., dlvd. Metropolitan area 100 lbs. 2.90 - 3.05
tanks, works, frt. equald ton 28.00 - —
20°, cbys., c.l., works 100 lbs. 2.75 - —
cbys., l.c.l., dlvd. Metropolitan area 100 lbs. 3.15 - —
tanks, works, frt. equald ton 30.00 - —
Hydrochloric acid, 22°, cbys., c.l., works 100 lbs. 3.25 - —
cbys., l.c.l., dlvd. Metropolitan area 100 lbs. 3.65 - —
tanks, works, frt. equald ton 35.00 - —
Hydrochloric acid, CP, USP, consumers, cbys., extra, c.l., works lb. .15¾- —
cbys., l.c.l., same basis lb. .17¼- .17¾
Hydrochloric acid, 5-pint bots., extra cs., c.l., same basis. lb. .20¾- —
Hydrocortisone acetate, bulk, bots., kilo lots or more gram. 1.05 - 1.90
Hydrocortisone alcohol, bulk, bots., kilo lots or more gram. 1.10 - 1.90
Hydrocyanic acid, dilute, NF, 2%, 5-pt. bots., f.o.b. works pt. .70 - —
Hydrofluoric acid, anhyd. (see Hydrogen fluoride).
Hydrofluoric acid, aqueous, 70%, 55-gal. or 30-gal. dms., c.l., t.l., dlvd. 100 lbs. 19.25 - —
55-gal. dms., l.c.l., l.t.l., dlvd. 100 lbs. 20.75 - —
20-gal. dms., c.l., t.l., dlvd. 100 lbs. 21.00 - —
20-gal. dms., l.c.l., l.t.l., dlvd. 100 lbs. 22.50 - —
tanks, works frt. equald. 100 lbs. 13.40 - —
Delivered prices apply to all states east of Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Washington and Wyoming. In those states add $2.70 per cwt. for drum delivery.
Hydrofluosilicic acid, dms., works, 30% basis lb. .06 - —
Hydrofuramide, dms., fib. ctns., works lb. .30 - .46
50-lb. cyls., l.c.l., works lb. .55 - .60
Hydrogen chloride, anhyd., 50-lb. cyls., l.c.l., works lb. .45 - —
Hydrogen cyanide, liq., 98%, tanks, works lb. .14 - —
Hydrogen fluoride, anhyd., cyls., dlvd. E lb. .30½- .32½
cyls., dlvd W. lb. .39 - —
tanks, works lb. .18 - —
Hydrogen peroxide, 35%, dms., c.l., dlvd. lb. .202 - —
dms., l.c.l., dlvd. lb. .211 - —
tanks, dlvd. lb. .1800- —
Hydroquinone, photo grade, dms., 50-lbs., f.o.b. works lb. 1.10 - —
Tech., dms., c.l., dlvd. lb. .82½- —
dms., l.c.l., dlvd. lb. .84½- —
Hydroquinone monomethyl ether, dms., t.l., dlvd lb. 2.59 - —
dms., l.t.l., dlvd. lb. 2.61 - —
Hydroxyacetic acid, tech., 70% dms., Philadelphia and Chicago lb. .11 - —
tanks, Belle, W. Va. lb. .073 - —
Hydroxycitronellol, cns. lb. 4.85 - 5.75
Hydroxyethyl cellulose, add grades, fib. dms., 20,000-lb. lots or more, f.o.b. shipping point lb. .84 - —
fib. dms., 2,000 to 19,999-lb. lots, same basis lb. .89 - —
fib. dms., 100 to 1,999-lb. lots, same basis lb. .93 - —
fib dms., smaller lots, same basis lb. 1.03 - —
Hyoscine salts (see Scopolamine).
Hyoscyamine hydrobromide, bots. oz. 7.75 - 8.50
Hyoscyamine sulfate, bots oz. 7.75 - 8.50
Hypophosphorous acid, purif., 50%, 10-cbys., f.o.b. works lb. 1.95 - —
NF, 50%, 10-cbys., same basis lb. 1.35 - —

I

Ichthammol, NF, dms. lb. .75 - 1.05
Indigo (see Dyes, coaltar, 1171 indigo, syn.)
Indole, CP, bots. lb. 13.75 - 15.00
Inositol, 50-100 lb. dms., 1,000 lbs. or more, dlvd. lb. 4.50 - —
Inositol, 50-lb. lbs., less than 1,000 lb., dlvd. lb. 4.75 - —
10 lb. cns., 10-50 lbs., dlvd. lb. 5.00 - —
5 lb. bots., dlvd. lb. 5.25 - —
Insect flowers (see Pyrethrum).
Iodine, crude, kgs. lb. .95 - 1.10
Resub., USP, dms., f.o.b. works lb. 2.00 - 2.02
Iodochlorohydroquinolin, USP, dms. lb. 3.60 - —

AMOCO OXO ALCOHOLS
HIGHEST ESTERIFICATION QUALITY

EACH SHIPMENT OF ISOOCTYL AND DECYL ALCOHOL IS TRIPLE CHECKED FOR QUALITY BY: 1. HIGH TEMPERATURE ESTERIFICATION WITH PHTHALIC ANHYDRIDE. 2. ACID COLOR WITH CONCENTRATED SULFURIC ACID. 3. ESTERIFICATION COLOR AFTER HEAT AGING. SKILLED TECHNICAL SERVICE AVAILABLE.



AMOCO CHEMICALS

AMOCO CHEMICALS CORPORATION
910 South Michigan Avenue
Chicago 80, Illinois

Iodoform, NF, dms., 300-lbs., f.o.b. works	lb.	4.90	—
dms., 100-lbs., same basis	lb.	5.05	—
a-Ionone, cns.	lb.	4.60	5.75
b-Ionone, cns.	lb.	4.15	6.15
Ipecac root, whole, bgs.	lb.	8.00	8.50
Powd., bbls., bxs.	lb.	9.50	10.00
Irish moss, bleached, prime, bls.	lb.	.25	.27
Iron blue, alkali-resisting, bbls., c.l., dlvd. E.	lb.	.57	—
bbls., l.c.l., ton lots, same basis.	lb.	.58	—
bbls., smaller lots, same basis.	lb.	.59	—
Dom., reg., bbls., c.l., dlvd. E.	lb.	.52	—
Iron blue, alkali-resisting, dom., reg., bbls., l.c.l., ton lots, same basis	lb.	.53	—
bbls., l.c.l., smaller lots, same basis	lb.	.54	—
Imp., British, reg., bbls., c.l., dlvd. E.	lb.	.48	—
bbls., l.c.l., ton lots, same basis	lb.	.49	—
bbls., l.c.l., smaller lots, same basis	lb.	.50	—
Iron blue dlvd. prices 1c. higher for Pacific Coast states: Wash., Ore., Cal., N. M., Ariz., Mont., Wyo., Utah, Col. and Nev.			
Iron compounds (see Ferric or Ferrous).			
Iron oxide, black, pure, bgs., c.l., works	lb.	.14¾	—
bgs., l.c.l., works	lb.	.15	—
Iron oxide, brown, pure, bgs., c.l., works	lb.	.14¼	—
bgs., l.c.l., works	lb.	.14½	—
Iron oxide, metallic, brown, bgs., works	lb.	.05½	—
Iron oxide, Persian Gulf, red., bgs., c.l., works	lb.	.08¾	—
Iron oxide, red, dom., pure, bgs., Bethlehem, E. St. Louis, New York City	lb.	.14¼	—
Iron oxide, red, nat., 75-85% ferric oxide, bgs., c.l., works	lb.	.06¼	—
bgs., l.c.l., works	lb.	.06½	—
Iron oxide, Spanish red, bbls., c.l., ex dock	lb.	.05¾ Nom.	
bbls., l.c.l., ex dock	lb.	.06 Nom.	
bbls., l.c.l., ex whse, New York.	lb.	.06½ Nom.	
Iron oxide, yellow, nat., French type, bgs., c.l., works	lb.	.06¾	.07
Peruvian type, bgs., l.c.l.	lb.	.023	.024
Iron oxide, yellow, pure, light lemon shade, bgs., c.l., works	lb.	.12¼	—
other shades, same basis	lb.	.12	.12½
Isoamyl alcohol, dms., c.l., works, frt, alld E.	lb.	.27½	—
dms., l.c.l., same basis	lb.	.29	—
tanks, same basis	lb.	.25	—
Isoborneol, cns.	lb.	1.44	1.80
Isobornyl acetate, cns.	lb.	.46	.56
Isobornyl formate, dms.	lb.	1.20	—
Isobornyl proprionate, dms.	lb.	1.25	1.35
Isobutyl acetate, perfume grade, cns.	lb.	.33	—
Isobutyl acetate, solvent grade, dms., c.l., dlvd. E. of Rockies	lb.	.15¼	—
dms., l.c.l., same basis	lb.	.16¾	—
tanks, same basis	lb.	.12¾	—
Isobutyl alcohol, dms., c.l., dlvd	lb.	.15½	—
dms., l.c.l., dlvd.	lb.	.17	—
tanks, dlvd.	lb.	.13	—
Isobutylene, 99%, tanks, works	gal.	.38	—
Isobutyl isobutyrate, dms., f.o.b. works	lb.	.75	—
Isobutyraldehyde, CP, dms., c.l., dlvd.	lb.	.27½	—
dms., l.c.l., dlvd.	lb.	.28½	—
Tech., dms., c.l., dlvd.	lb.	.22	—
dms., l.c.l., dlvd.	lb.	.23	—
tanks, dlvd.	lb.	.19½	—
Isobutyric acid, dms., c.l., t.l., dlvd.	lb.	.35	—
dms., l.c.l., t.l., same basis	lb.	.36½	—
t.c. t.t., same basis	lb.	.33	—
Isobutyronitrile, dms., c.l., dlvd.	lb.	.47½	—
dms., l.c.l., dlvd	lb.	.48½	—
tanks, dlvd.	lb.	.45	—
Isoeugenol, cns.	lb.	3.40	4.25
Isoniazid, powd., bulk, kilo or more	kilo.	18.00	—
Isonicotinic acid, 100-lb. fib. dms., works	lb.	4.25	—
Isonicotinic acid hydrazide (see Isoniazid).			
Iso-octyl alcohol, dms., c.l., dlvd. E.	lb.	.23½	—
dms., l.c.l., dlvd. E.	lb.	.25	—
tanks, dlvd. E.	lb.	.21	—
Isopentane, com'l. grade, tanks, f.o.b. Tex. refy.	gal.	.16½	—
Isophorone, dms., c.l., works	lb.	.24½	—
dms., l.c.l., works	lb.	.25¼	—
tanks, works	lb.	.22½	—
Isophthalic acid, dms., c.l., works, frt. equald.	lb.	.18	—
dms., l.c.l., same basis	lb.	.19	—
Isopropanol (see Isopropyl alcohol).			
Isopropyl acetate, dms., c.l., dlvd.	lb.	.14	—
dms., l.c.l., same basis	lb.	.15½	—
tanks, same basis	lb.	.11½	—
Isopropyl alcohol, refd., 91%, dms., c.l., dlvd.	gal.	.58	—
dms., l.c.l., dlvd.	gal.	.68	—
tanks, dlvd.	gal.	.42	—
Isopropyl alcohol, refd., 95%, c.l., dms., dlvd.	gal.	.60	—
dms., l.c.l., dlvd.	gal.	.70	—
tanks, dlvd.	gal.	.44	—
anhyd., c.l., dlvd.	gal.	.62	—
dms., l.c.l., dlvd.	gal.	.72	—
tanks, dlvd.	gal.	.46	—
Isopropyl benzene (see Cumene).			
Isopropyl ether, dms., c.l., dlvd.	lb.	.09½	—
dms., l.c.l., dlvd.	lb.	.11	—
tanks, dlvd.	lb.	.07	—
Isopropyl-N-(3-chlorophenyl) carbamate (CIPC) tech., dms., c.l., t.l., works	lb.	1.00	—
dms., l.c.l., works	lb.	1.05	1.25
tanks, works	lb.	.99	—
Isopropylamine (see Mono, Di, or Tri-).			
Isopropyl-N-phenyl carbamate, 450-lb. fib. dms., c.l., t.l., works	lb.	.75	—
450-lb. fib. dms., l.c.l., works	lb.	.80	.90
Isoquinoline, dms., works	lb.	.65	1.25
Itaconic acid, refd., bgs., c.l., f.o.b. works	lb.	.53½	—
bgs., l.c.l., same basis	lb.	.54½	—
Tech., bgs., c.l., same basis	lb.	.38½	—
bgs., l.c.l., same basis	lb.	.39½	—

J

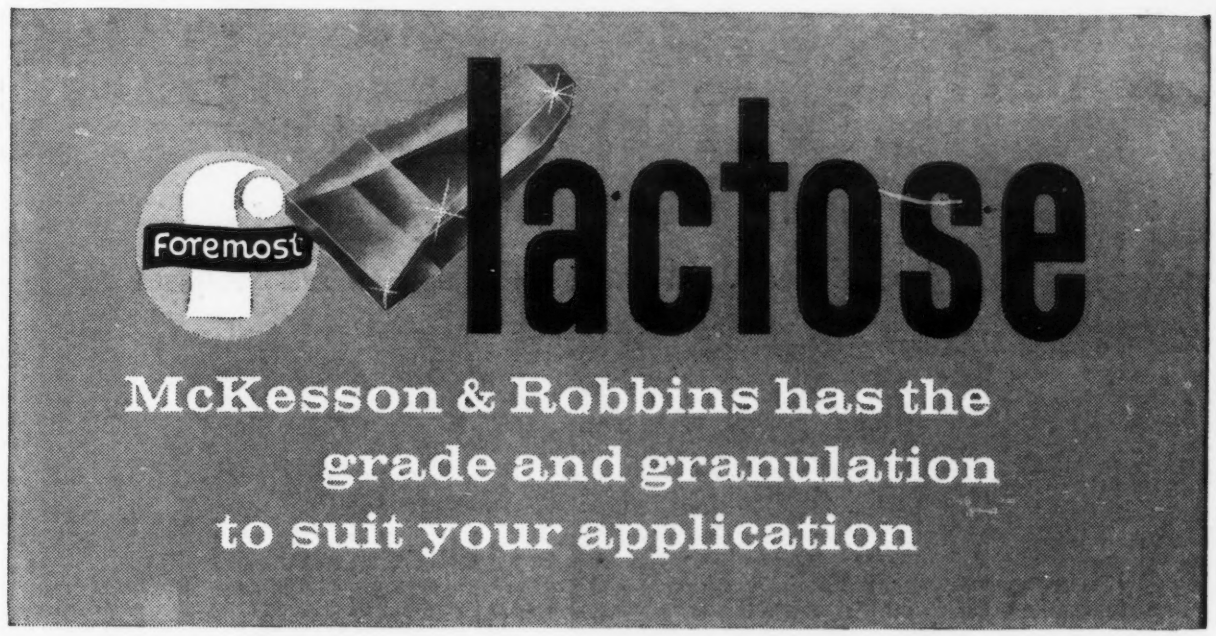
J acid, paste, bbls., works, 100% basis	lb.	2.70	—
Powd., bbls., same basis	lb.	2.75	—
Jalap root, NF, bls.	lb.	.60	—
NF, powd., bbls., bxs.	lb.	.70	.75
Japan wax, cs.	lb.	.29	.31
Juniper berries, bgs.	lb.	.16	.17
Juniper berry oil, NF, bots.	lb.	2.90	3.75
Twice rectified, bots.	lb.	3.25	—
Juniper tar oil, NF, dms.	lb.	.42	.60
Juniper wood oil, tech., cns.	lb.	.38	.55

K

Kaolin (see also Clay, China).			
Kaolin, NF, powd., fib. dms	lb.	.10	.12
NF, colloidal, 50-lb. bgs.	lb.	.15½	.17½
Karaya gum, No. 1, NF, powd., bls.	lb.	.48	.50
No. 2, powd., bbls.	lb.	.43	.45
No. 3, powd., bbls.	lb.	.37	.40
Koch acid, bbls., frt. alld., 100% basis	lb.	1.00	—
Kola nuts, bgs.	lb.	.13	.15

L

L acid, bbls., works	lb.	1.25	—
Lacquer diluent, petroleum, 140°F. 200°F. b.r., tankcars, New Jersey and New York	gal.	.20	—
Group 3	gal.	.15125	—
Houston, Texas	gal.	.16	—
Lacquer diluent, petroleum, 200°F-240°F b.r., tankcars, New Jersey or New York	gal.	.20	—
Group 3	gal.	.14125	—
Houston, Texas	gal.	.16	—
Lactic acid, edible, 50%, bbls. dms., c.l., frt. equald	lb.	.1985	—
bbls., dms., 20 or more, frt. equald	lb.	.2033	—
bbls., dms., 5 to 19, frt. equald.	lb.	.2085	—
bbls., dms., 1 to 4, frt. equald.	lb.	.2135	—
Lactic acid, edible, 80%, bbls., c.l., dms., frt. equald	lb.	.3335	—
bbls., dms., 20 or more, frt. equald	lb.	.3385	—
Lactic acid, edible, 80%, bbls., dms., 5 to 19, frt. equald	lb.	.3435	—
bbls., dms., 1 to 4, frt. equald.	lb.	.3485	—
Plastic grade, 50%, c.l., bbls., works	lb.	.2740	—
bbls., 20 or more, works	lb.	.2790	—
bbls., 5 to 19, works	lb.	.2840	—
bbls., 1 to 4, works	lb.	.2890	—
80%, bbls., c.l., works	lb.	.4625	—
bbls., 5 to 19, works	lb.	.4725	—
bbls., 1 to 4, works	lb.	.4775	—
Tech., 44%, bbls., c.l., works. 100 lbs.		12.45	—
bbls., l.c.l., works 100 lbs.		12.85	—
USP, 85%, cbys.	lb.	.85	—
Lactose, crystalline, edible, bgs., 23,000-lb. lots, frt. equald	lb.	.14	—
bgs., 6,000-lb. lots, frt. equald	lb.	.14½	—
bgs., 2,000-lb. lots, frt. equald	lb.	.14¾	—
bgs., 200-lb. lots, frt. equald	lb.	.15¼	—
Edible lactose in fib. dms., ½c. higher.			
Lactose, ferment, grade, bgs., c.l., works	lb.	.08½	—
Lactose, USP, reg., fib. dms., 30,000-lb. lots, frt. equald	lb.	.21½	—
fib. dms., 2,000-lb. lots, frt. equald	lb.	.22¼	—
200-1,880-lb. lots, frt. equald	lb.	.22¾	—
USP lactose in bags ½c. to 1c. lower.			
Lactose, USP, spray dried, bgs., t.l., frt. equald	lb.	.18½	—
bgs., l.t.l., frt. equald	lb.	.19	.19¾
Lady's slipper root, bls.	lb.	3.00	3.50
Lamp black, bgs., c.l., works	lb.	.16	.45
Lanolin, USP, anhyd., 400-lb. dms., works	lb.	.24	.26
USP, annyd., cosmetic, 400-lb. dms., works	lb.	.26	.30
USP, hydrous, 400-lb. dms., works.	lb.	.20	—
Lard, cash, dms., Chicago	lb.	.09	—
Lard oil (see Grease oil).			
Larkspur seed, bgs.	lb.	.55	—
Laurel leaf oil, dms., cns.	lb.	9.75	12.50
Laurent's acid, bbls	lb.	.70	—
Lauric acid, pure, dms.	lb.	.33¾	.36¼
tanks	lb.	.31¼	—
Lauryl alcohol, bots	lb.	2.00	2.50
n-Lauryl methacrylate, dms., c.l., t.l., works	lb.	.65½	—
dms., l.t.l., works	lb.	.66	—
Lavandin oil, 22-24%, dms.	lb.	1.10	1.50
Abrial, dms.	lb.	1.00	1.50
Lavender flowers, medium, bls.	lb.	.55	.60
Ord., bls.	lb.	.20	.25
Select., bls.	lb.	.90	1.00
Lavender flower oil, USP, French, 35-37% ester, cns.	lb.	1.85	4.00
40-42% ester, cns.	lb.	5.00	7.75
Spike, Spanish, cns.	lb.	2.20	3.00
Lead acetate, NF, cryst., gran., powd., bbls	lb.	.34½	—
White, cryst., bbls.	lb.	.25½	—
gran., bbls.	lb.	.26½	—
powd., bbls.	lb.	.26½	—
Lead arsenate, acid powder, dealers, 3-50-lb. bgs. or any quantity, frt. alld. on $150 or more	lb.	.30½	—
1-lb. bgs., same basis	lb.	.47	—
Lead, blue, basic sulfate, bbls., c.l., shipt. point, frt. alld	lb.	.17	—
bbls., l.c.l., same basis	lb.	.18	—
Lead carbonate (see Lead, white, basic carbonate).			
Lead chloride, dms.	lb.	.52	—
Lead iodide, NF, V jars	lb.	2.82	—
Lead linoleate fused, 26% Pb, dms.	lb.	.38	—
Lead metal prime, pigs, New York.	lb.	.12	—
St. Louis	lb.	.1180	—
Lead monosilicate, bgs., c.l., works, frt. equald	lb.	.1385	—
bgs., l.c.l., same basis	lb.	.1485	—
Lead naphthenate, liq., 16% Pb., dms., dlvd.	lb.	.19½	—
24% Pb., dms., dlvd.	lb.	.24¼	—
Solid, 37% Pb., dms., dlvd.	lb.	.31¾	—



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Lead nitrate, bbls. ..... lb. .24¼- .26¾
Lead orthosilicate gel., 50-60% PbO, dms., works lb. .29¾- .34¼
Lead peroxide, tech powd., bbls lb. .45 - .50
Lead phthalate, dibasic, dms., works, lb. .41 - —
Lead, red, 95% Pb_3O_4 or less, bbls., c.l., works, frt. equald. lb. .1475- —
bbls., l.c.l., same basis lb. .1575- —
Lead, red, 97% Pb_3O_4, bbls., c.l., same basis lb. .1495- —
bbls., l.c.l., same basis lb. .1595- —
Lead, red, 98% Pb_3O_4, bbls., c.l., same basis lb. .1510- —
bbls., l.c.l., same basis lb. .1610- —
Lead, resinate, precip. 23% Pb, dms., ton lots, dlvd lb. .43¾- —
Lead salicylate, normal dms., works lb. .46 - —
Lead silicate (see Lead white basic silicate).
Lead silicochromate, bgs., c.l., f.o.b. mfrs. point, frt. alld lb. .20 - —
bgs., l.c.l., same basis lb. .21 - —
Lead sulfate (see Lead blue basic sulfate).
Lead tallate, liq., 16% Pb, dms lb. .17¼- —
24% Pb, dms lb. .21¼- —
Solid, 30% Pb, dms lb. .26¾- —
Lead, white, basic carbonate, bgs., c.l., shipt pt., frt. alld lb. .18 - —
bgs., l.c.l., same basis lb. .19 - —
basic silicate, bgs., c.l., shipt. pt., frt. alld lb. .16½- —
bgs. l.c.l., same basis lb. .17½- —
basic silicate, bgs., c.l., shipt. pt., frt. alld lb. .17 - —
bgs., l.c.l., same basis lb. .18 - —

Lecithin, edible, tech., bleached, non-ret. dms., c.l., works, lb. .14 - .15
non-ret. dms., l.c.l., same basis lb. .15 - .16
Lecithin, edible, tech., unbleached, non-ret. dms., c.l., same basis lb. .13 - .14
non-ret. dms., l.c.l., same basis lb. .14 - .15
Lemon bioflavonoid compiex, 100-lb. package, works lb. 6.45 - —
Lemon oil, USP, Calif., cns., dms. lb. 1.25 - 1.50
Messina, cns. lb. 3.25 - 4.00
Lemongrass oil, cns., dms. lb. 2.10 - —
dl-Leucine, dms., works lb. 12.25 -15.00
Licorice root, gran., bls. lb. .13 - —
Powd., bls. lb. .15 - .16
Whole, bls. lb. .09 - .10
Lignaloe wood oil, Mexican, cns. lb. 2.75 - 3.50
Lignosulfonate (see under Ammonium or Sodium lignin sulfonate).
Lilac oil lb. 1,500.00
Lime, chemical (quicklime), bulk, c.l., 50,000 lbs., works, E. ton. 14.25 - —
Chemical, hydrated, bgs., c.l., same basis ton. 17.25 - —
spray, bgs., c.l., same basis ton. 18.25 - —
For New York delivery, add $6.29 freight charge.
Lime oil, dist., Mexican, cns. lb. 5.50 - —
West Indian, cns lb. 5.50 - —
Expressed, West Indian, cns. lb. 7.75 - 8.75
Lime salts (see Calcium).
Lime-ammonium nitrogen, 20.5% N (see Ammonium nitrate with dolomite).

Linalool, ex bois de rose oil, dms. lb. 2.45 - 4.25
Syn., 98-100%, dms., works lb. 2.40 - 2.75
Linalyl acetate, ex bois de rose, 90-92%, dms. lb. 2.65 - 4.50
96-98%, dms. lb. 3.25 - —
Syn., 98-100%, dms., works lb. 2.75 - —
Lindane, 25% formulation, to distributors, dms., frt. alld. lb. 1.35 - 1.50
Lindane, tech., to formulators, 250-lb. dms., 5,000 lbs., dlvd. lb. 2.13 - —
100-lb. dms., 5,000-lbs., dlvd. lb. 2.15 - —
250-lb. dms., less than 5,000-lbs., dlvd. lb. 2.18 - —
100-lb. dms., less than 5,000-lbs., dlvd. lb. 2.20 - —
Linden flowers, with leaves, bls lb. .35 - .40
Without leaves, bls. lb. .42 - .45
Linseed meal, expeller, 32% bulk, Minneapolis, mills ton. 56.50 - —
Extracted, 34% bulk, same basis ton. 50.00 - —
Linseed oil, raw, dms., c.l., New York lb. .1610- —
dms., l.c.l., New York lb. .1700- .1750
tanks, f.o.b. Minneapolis lb. .1250- —
tanks, New York lb. .1361- —
tankwagon, New York lb. .1421- —
Boiled linseed oil, .006c. per lb. higher.
Linseed oil, acid, dist., dms. lb. .1980- —
Water-white, dms. lb. .2280- —
Litharge, comi., powd., bbls., c.l., works, frt. equald. lb. .1425- —
bbls., l.c.l., same basis lb. .1525- —
Lithium aluminum hydride, lump, dms., works lb. 33.00 -39.00
Lithium benzoate, dms. lb. 1.65 - 1.67
Lithium bromide, NF, gran., bgs., works, frt. equald. lb. 2.60 - —

Lithium carbonate, NF, dms., c.l., t.l., dlvd. lb. 1.29¼- —
dms., ton lots to t.l., dlvd. lb. 1.30 - 1.30½
Tech., dms., c.l., frt. alld. lb. .67 - —
dms., t.l., same basis lb. .73 - —
dms., ton lots, same basis lb. .76 - —
dms., smaller lots, f.o.b., plant, lb. .81 - —
Lithium chloride, CP, anhyd., dms., ton lots lb. 1.23½- —
Tech., anhyd., dms., c.l., t.l., dlvd. or works, frt. alld. lb. .87 - —
dms., l.c.l., same basis lb. .88 - .92
Lithium citrate, NF, dms., ton lots. lb. 1.50 - —
Lithium fluoride, dms., 20,000-lb. lots, dlvd lb. 2.15 - —
bbls., ton lots and more, dlvd lb. 2.18½- —
bbls., less ton lots, dlvd. lb. 2.23½- —
Lithium hydride, powd., dms., 500-lbs. lots or more, works, lb. 9.50 - —
Lithium hydroxide, monohydrate, dms., c.l., t.l., frt. alld. lb. .72 - —
dms., l.c.l., frt. alld. lb. .73 - —
Lithium manganite, dms., works lb. .95 - 1.05
Lithium nitrate, tech., dms., 100-lb. lots lb. 1.15 - 1.25
Lithium salicylate, dms. lb. 1.60 - 1.70
Lithium silicate, dms., works lb. 1.10 - 1.20
Lithium stearate, dms., c.l., works, lb. .47½- —
dms., ton lots, works lb. .48½- —
dms., less-ton lots, works lb. .53½- —
Lithium sulfate, dms., 100-lb. lots, lb. 1.15 - 1.25
Lithium titanate, dms., works lb. 1.15 - 1.25
Lithol red toner, barium, bbls., works lb. .98 - —
Lithol-rubine red toner, pure, bbls., works lb. 1.50 - —
Resinated, bbls., works lb. 1.47 - —
Lithopone, ord., bgs., c.l., dlvd. E. lb. .08⅜- —
bgs., l.c.l., dlvd. E lb. .09⅛- —
Titanated (high-strength), bgs., c.l., dlvd lb. .11 - —
bgs., l.c.l., dlvd. lb. .12 - —
Lobelia herb, bls. lb. .75 - .80
Lobeline sulfate, bots., 50-oz. lots, works oz. 30.00 - —
Locust bean gum, powd., bgs. lb. .35 - .40
Lycopodium, cs. lb. 3.25 - 3.50
l-Lysine monohydrochloride, 25-lb. dms lb. 4.95 - —

M

Mace, Siauw, No. 1, bls. lb. 1.70 - —
No. 2, whole, bls. lb. 1.40 - —
siftings, bls. lb. 1.35 - —
Mace oil, dist., cns., dms lb. 9.00 -11.00
Magnesia, calcined, tech., bgs., ctns., frt equald lb. .25¾- .26⅛
Tech., syn., rubber grade, light, bgs., c.l., frt. equald lb. .28¾- .30
rubber grade, extra light, bgs., c.l., frt. equald lb. .28 - —
bgs., l.c.l., frt. equald lb. .28¾- —
Above prices are quoted f.o.b. works, freight equald., with Metropolitan New York and competitive producing points
Magnesia, calcined, tech., heavy, 85%, bgs., c.l., f.o.b. Lunning, Nev ton. 39.50 - —
91%, bgs., c.l., same basis. ton. 49.50 - —
95%, bgs., c.l. same basis. ton 59.00 - —
USP, light, bgs. lb. .36½- .37⅛
USP, heavy, bgs. lb. .36½- .37⅛
Magnesite, chemical grade, calcined, powd., bgs., c.l., works, frt. equald ton. 86.25 - —
Chemical grade, deadburnt, standard grain, bulk., c.l., Chawelah, Wash. ton. 46.00 - —
Magnesium bromide, cs., jars lb. .95 - 1.00
Magnesium carbonate, tech., bgs., c.l., frt. equald lb. .11 - —
bgs., t.l., frt. equald lb. .11½- —
bgs., l.c.l., frt. equald lb. .13½- .14
Magnesium carbonate, USP, bgs., c.l., frt. equald lb. .13½- —
bgs., t.l., frt. equald lb. .14 - —
bgs., l.c.l., frt. equald lb. .15 - 16
Above prices are quoted f.o.b. works, freight equald., with Metropolitan New York and competitive producing points.
Magnesium chloride, anhyd., 92%, flake or pebble, drums, c.l., works lb. .12¾- —
dms., l.c.l., works lb. .14 - .15
Magnesium chloride, hydrous, 99%, flake, bgs., c.l., works ton. 60.00 - —
bgs., l.c.l., works ton. 75.00 -100.00
Magnesium gluconate, 100-lb. dm., f.o.b. works, E lb. 1.42 - —
Magnesium hydroxide, NF, powd., dms., 500-lbs. or more, f.o.b. works lb. .24½- .25⅛
Magnesium lauryl sulfate, dms., c.l., frt. alld lb. .22½- —
dms., l.t.l., frt. alld. lb. .23½- —
tanks, frt. alld. lb. .21½- —
Magnesium metal, 99.8%, ingots, 10,000-lb. lots or more, works lb. .36 - —
pigs, 10,000-lb. lots or more, works lb. .35¼- —
sticks, cs., works, frt. alld on carlots lb. .59 - —
Magnesium nitrate, cryst., dms., works lb. .29 - —
Magnesium oxide (see Magnesia, calcined).
Magnesium phosphate, tribasic, NF, bbls lb. .75 - —
Magnesium silicate (see Talc).
Magnesium silicofluoride, dms., works lb .10¼- .12
Magnesium sulfate, tech., bgs., c.l., works 100 lbs. 2.15 - —
bgs, l.c.l., works 100 lbs. 2.90 - 3.15
USP, cryst., bgs., c.l., works, 100 lbs. 2.35 - —
bgs., l.c.l., 5,000 lbs., 1 withdrawal 100 lbs. 3.10 - —
bgs., smaller lots 100 lbs. 3.35 - —
Magnesium trisilicate, USP, fib. dms., 5,000-lb. lots lb. .38 - —
fib. dms., 1,000-lb. lots lb. .40 - —
fib. dms., 100-lb. lots lb. .45 - —
Bulky and super grades of magnesium trisicilate 7c. per. lb. higher.
Malachite green, straight, PTA, bbls., works lb. 5.30 - —
Malathion, dms., c.l., works lb. .89 - —
dms., l.c.l., works lb. .92 - 1.01
Maleic acid, cryst., powd., dms lb. .37¼- —
Maleic anhydride, dms., c.l., frt. equald lb. .24 - —
dms., l.c.l., frt. equald lb. .25½- —
tanks, frt. equald lb. .22½- —
Maleic anhydride in bags ½c. per lb. less.
Malic acid, tech., dms lb. .50 - —
Mandelic acid, NF, dms., 1,000-lb. lots lb. 2.35 - —
dms., smaller lots lb. 2.40 - 2.50
Mandrake root, bls. lb. .45 - —
Manganese acetate, dms., dlvd lb. .35 - —
Manganese borate, tech., fib. dms. lb. .23½- —
Manganese carbonate, chemical grade, 46% Mn, bgs., 20,000-lb. lots and more, works lb. .11 - .16

ONE LABEL — *First Grade Only*
ONE PRICE — *That Saves You Money*
. . . and Perfect Performance for *Every Purpose!*

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LEMON OIL
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Distributed by

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424 South Atchison Street, Anaheim, Calif.

R. D. WEBB & CO., INC.
137 Boston Post Road, Cos Cob, Conn.

Manganese chloride, CP, anhyd., dms., 20,000-lb. lots, works lb. .21¾- —
smaller lots, works..... lb. .23½- —
Manganese dioxide, African, 83-87%, 40,000 to 99,999-lb. lots, burlap paper lined bgs., gross for net works..ton.148.00 • —
40,000 to 99,999-lb. lots, paper bgs., same basis..... ton.144.50 • —
40,000 to 99,999-lb. lots, dms. same basis..ton.152.50 • —

Prices for manganese dioxide in 10,000 to 40,000-lb. lots, $3 per ton higher.

Manganese gluconate, dms..... lb. 1.84 • —
Manganese hydrate, dms., dlvd..lb. .35 • —
Manganese hypophosphite, NF, dms. lb. 3.52 • —
Manganese linoleate, liq., 4.35% Mn, dms..lb. .35¾- —
Solid, precip., 8.2% Mn, bbls .lb. .41¼- —
Manganese metal, electrolytic, dms., c.l., dlvd. E. .....lb. .34 • —
dms., ton lots, dlvd. E. .....lb. .36 • —
dms., smaller lots, dlvd. E...lb. .38 • —
Manganese naphthenate, liq., 6% Mn, dms., frt. alld .lb. .29¾- —
Manganese resinate, fused, 3½% Mn, dms..lb. .29¼- —
Precip., 6½-7% Mn, dms.....lb. .37 • —
Manganese sulfate, fertilizer grade, 65% $MnSO_4$, bgs., c.l., dlvd., S. E..ton.86.50 • —
bgs., l.c.l., dlvd. S. E..ton.93.50 • —
Manganese tallate, 6% dms.....lb. .26½- —
Manila copal gum, C, bgs. .....lb. .35 • .39
DBB, bgs. .....lb. .25 • .28
DK, bgs. .....lb. No stocks.
DK, dust, bgs. .....lb. .14 Nom.
MA, soft, bgs. .....lb. .20 • .24
WS, bgs. .....lb. No stocks.
Mannitol, com'l. fib. dms., ton lots, works lb. .60 • —
fib. dms., to ton lots, works lb. .62 • —
fib. dms., single dm., works..lb. .65 • —
Marine pitch, dms. .....lb. .04¼- .05
MBTS (see Mercaptobenzothiazyl disulfide)
MBT (see 2-Mercaptobenzothiazole).
Melamine, bgs., c.l., works.....lb. .26½- —
bgs., l.c.l., works .....lb. .28 • —
Menadione, USP, bots. .....gram. .044 - .05
Menhaden oil, crude, tanks, works, Atl. & Gulf lb. .06 • —
Menthol, nat., USP, Brazilian, large crystals, cs lb. 9.00 - 9.50
Nat., USP, Brazilian, regular crystals, cs..lb. 8.75 • —
Japanese, cs. .....lb.12.00 • —
Syn., USP, racemic, 25-lb. lots lb. 4.25 • —
2-Mercaptobenzothiazole, bgs., fib. dms., ton lots, works, frt. alld lb. .44 • —
bgs., fib. dms. less ton lots, same basis lb. .46 • —
Mercaptobenzothiazyl disulfide, bgs., fib. dms., ton lots, works, frt. alld lb. .54 • —
bgs., fib. dms., less ton lots, same basis lb. .56 • —
Mercuric chloride, NF, cryst., dms., 100 lbs., f.o.b. works lb. 4.03 • —
USP, gran. or powd., 50-lb. dm., 100 lbs., f.o.b. works lb. 3.78 • —
Mercuric cyanide, NF VIII, powd., fib. dms lb. 5.84 • —
Mercuric iodide, red, NF, 100-lb. dm., f.o.b. works..lb. 6.97 • —
Mercuric oxide, red, NF IX, 50-lb. dm., 100 lbs., f.o.b. works. lb. 4.72 • —
tech., 50-lb. dm., 100 lbs., same basis..lb. 4.52 • —
Mercuric oxide, yellow, NF, 50-lb. dm., 100 lbs., same basis. lb. 4.89 • —
tech., dms., 100 lbs.....lb. 4.35 • —
25-lb. fib. dm. .....lb. 4.38 • —
Mercurous chloride (see Calomel).
Mercurous iodide, yellow, NF, 100-lb. dm. f.o.b. works..lb. 8.22 • —
Mercury, ammoniated (see White precipitate, USP XV).
Mercury metal, 76 lbs. per flask. net-flask.209.00 -212.00
Mesityl oxide, dms., c.l., dlvd....lb. .15 • —
dms., l.c.l., dlvd. .....lb. .16½- —
tanks, dlvd. .....lb. .12½- —
Meta-aminophenol (see m-Aminophenol).
Metachloroaniline (see m-Chloroaniline).
Metanilic acid, dms., works .....lb. .57 • .75
Metanitroparatoluidine (see m-Nitro-toluidine).
Metanitroaniline (see m-Nitroaniline).
Metaphenylenediamine (see m-Phenylenediamine).
Metatoluidine (see m-Toluidine).
Metatolylenediamine (see 2,4-Tolylenediamine).
Methacrylic acid, glacial, 98%, dms., truckloads, frt. equald..lb. .42½- —
dms., smaller lots, frt. equald. lb. .43 • .75
tanks, works, frt. equald..lb. .40 • —
Methanol, nat. denaturing grade, tanks, frt. alld..gal. .85 • —
Syn., zone 1, dms., c.l., or t.l. min., dlvd..gal. .51½- —
dms., l.c.l., dlvd. .....gal. .61½- —
tankwagon, 2,000-4,000 gal. lots, dlvd. Metropolitan area gal. .35 • —
tankwagon, 4,000 gal. min., dlvd gal. .30 • —
tankwagon, 4,000 gal. min., f.o.b. terminal..gal. .29 • —
Methanol, syn., zone 2, dms., c.l., or t.l., min. frt. alld. or dlvd. gal. .55½- —
dms., l.c.l., works .....gal. .65½- —
tankwagon, 2,000-4,000 gal. lots, min., dlvd., Metropolitan area gal. .39 • —
tanks, 4,000 gal. min., dlvd. gal. .34 • —

Synthetic methanol zones are: Zone 1 is all continental US E. of eastern boundaries of Ariz., Idaho and Utah. Zone 2 is remainder of US west of above state boundaries comprising Ariz., Calif., Idaho, Nev., Ore., Utah and Wash.

Methapyrilene fumarate, 100-999 lbs., dms., f.o.b. works, frt. equald..lb.21.75 • —
Methapyrilene hydrochloride, 100-999 lbs., dms., f.o.b. works, frt. equald..lb.27.25 • —
Methenamine (see Hexamethylene-tetramine).
Methionine hydroxyanalogue, (calcium salt) 90% min., dms., t.l., frt. alld. ....lb. 1.10 • —
dms., l.t.l., same basis.....lb. 1.16 • —
dl-Methionine, fib. dms., frt. alld., 50-lb. or more lb. 3.50 • —
Feed grade, 98%, fib. dms., same basis..lb. 1.43 • —
Methoxychlor, 50% wettable powder, dealers, dms., cs .lb. .66 • —
Methyl abietate, non-ret. dms., c.l., dlvd. zone 1..lb. .21½- —
non-ret. dms., l.c.l., same basis lb. .22 • .22½
Methyl abietate, hydrogenated, non-ret. dms., c.l., dlvd. zone 1 lb. .23½- —
non-ret. dms., l.c.l., same basis. lb. .24 • .24½

Zone 1 includes New England and Middle Atlantic states, Va., W. Va., N. C., Ohio, Ky., Mich., Ind., Ill., Wis., St. Paul and Minneapolis, Minn.; St. Louis, Mo.; Miss., Ala., Ga., Fla., S. C. and Tenn.

Methyl acetone, nat., dms., l.c.l., E. of Miss., frt. alld..gal. .62¼- —
Methyl acetone, syn., dms., c.l., frt. alld. E..gal. .66 • —
dms., l.c.l., frt. alld. E. ....gal. .76 • —
tanks, frt. alld. E. .....gal. .51 • —

Synthetic methyl acetone E. territory comprises all states East of and including Colo., Mont., N. Mex. and Wyo. West territory is made up of all states west of those four.

Methyl acrylate, dms., c.l., t.l., dlvd. lb. .39 • —
dms., l.t.l., dlvd. .....lb. .40 • —
tanks, dlvd. .....lb. .37 • —
Methyl alcohol (see Methanol).
Methyl amyl acetate, dms., c.l., dlvd. E..lb. .17 • —
dms., l.c.l., dlvd. E. .....lb. .18½- —
tanks, dlvd. E. .....lb. .14½- —
Methyl amyl alcohol, dms., c.l., dlvd. lb. .17 • —
dms., l.c.l., dlvd. .....lb. .18½- —
tanks, dlvd. .....lb. .14½- —
Methyl amyl ketone, dms., works. lb. 1.05 • —
N-Methylaniline, tech., tanks, frt. alld..lb. .60 • —
Methylanthranilate, cns. .....lb. 2.25 • 2.45
Methyl benzoate, cns., dms. ....lb. .60 • .75
Methyl bromide, service organization prices, 40 to 375-lb. cyls., large lots, frt. alld..lb. .62 • .65
on 100 lbs..lb. .79 • .82
Methyl cellulose, special vis., (1,500-4,000 cps.) 50-lb. bgs., c.l., works..lb. .82 • —
50-lb. bgs., 2,000-lb. lots and more, same basis .....lb. .89 • —
50-lb. bgs., smaller lots, frt. alld. on 100 lbs lb. 1.05 • —
Standard vis. (15,400 cps.) 50-lb. bgs., c.l., frt. alld..lb. .69 • —
50-lb. bgs., 2,000-lb. lots and more, same basis..... lb. .76 • —
50-lb. bgs., smaller lots, frt. alld.

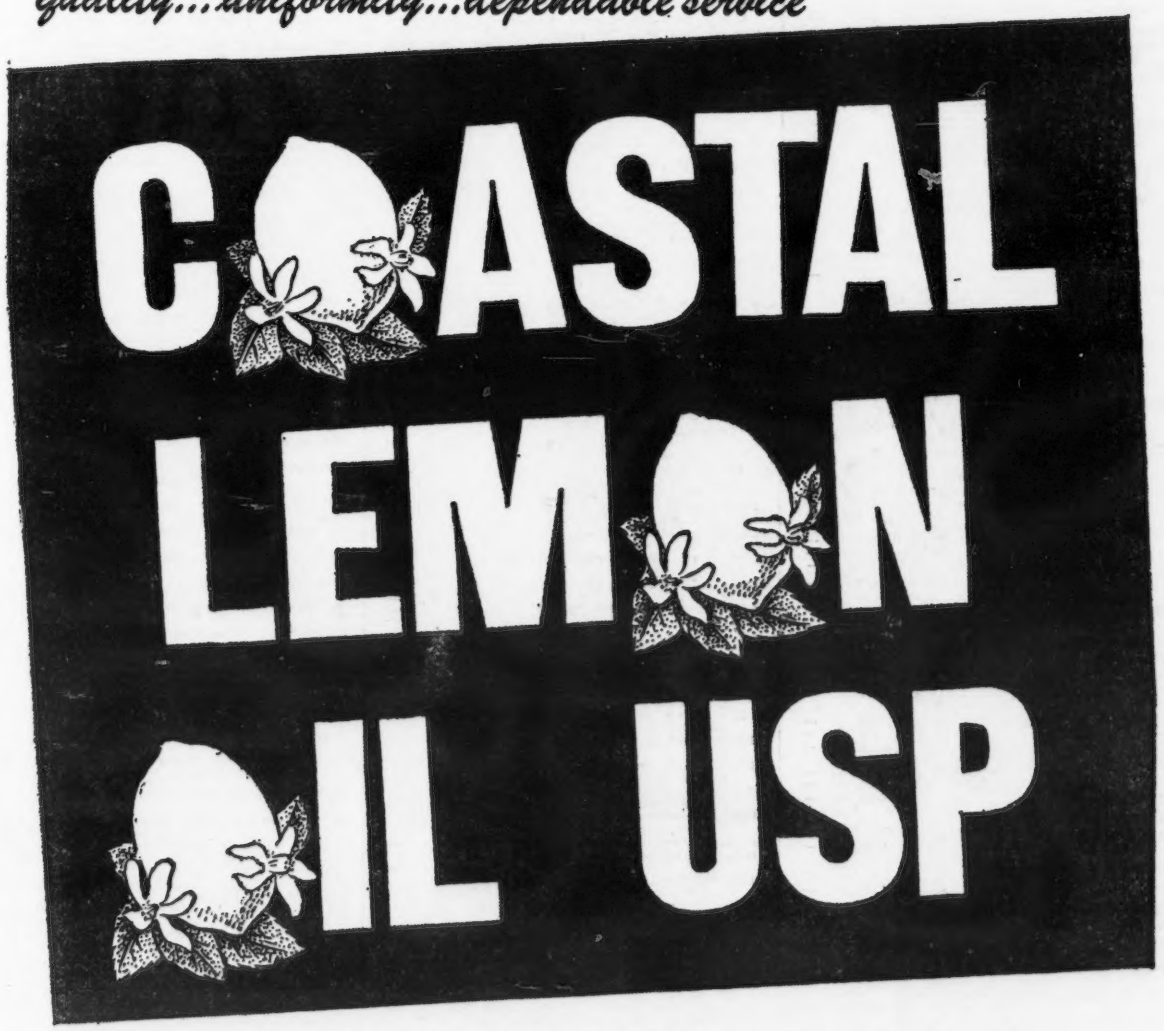
Methyl chloride, indust., cyls., frt. equald..lb. .22¼- —
tanks, multi-unit, same basis. lb. .16¼- —
tanks, single unit, same basis. lb. .12¾- —
Refrigerator mfrs., cyls., dlvd..lb. .48¾- —
Other consumers or service men, cyls., dlvd..lb. .67¾- —
Methyl chloroform (see 1,1,1-Trichloroethane).
Methyl cinnamate, cns.....lb. 1.55 • 1.80
Methyl ethyl ketone, dms., c.l., dlvd..lb. .15 • —
dms., l.c.l., dlvd.....lb. .16½- —
tanks, dlvd. .....lb. .12½- —
2-Methyl-5-ethyl pyridine, dms., c.l., works..lb. .45 • —
dms., l.c.l., works.....lb. .45¾- —
tanks, works .....lb. .43 • —
Methyl formate, refd., dms.....lb. .35 • .40
Tech., non-ret. dms., any quantity, works..lb. .10 • —
tanks, works.....lb. .07 • —
a-D Methyl glucoside, tech., 100-lb. multiwall paper bgs., c.l., works..lb. .21 • —
100-lb. multiwall paper bgs., t.l., min. 23,000 lbs., works. lb. .21¼- —
100-lb. multiwall paper bgs., l.t.l., works..lb. .23 • —
Methyl heptin carbonate, bots..lb.27.75 -31.00
Methyl p-hydroxybenzoate, fib. dms. lb. 1.90 • 2.00
Methyl ionone, standard, cns., dms. lb. 3.40 • 3.85

Methyl isoamyl ketone, dms., c.l., dlvd..lb. .20 • —
dms., l.c.l., dlvd. .....lb. .20½- —
tanks, dlvd. .....lb. .17½- —
Methyl isobutyl carbinol (see Methyl amyl alcohol).
Methyl isobutyl Ketone, dms., c.l., dlvd..lb. .17 • —
dms., l.c.l., dlvd.....lb. .18½- —
tanks, dlvd.....lb. .14½- —
Methyl methacrylate, dms., c.l., t.l., frt. equald, with Belle, W. Va..lb. .31 • —
dms., smaller lots, same basis..lb. .31½- —
tanks, same basis.....lb. .29 • —
Methyl naphthyl ketone, cryst., cns..lb. 2.45 • 4.30
Methyl parahydroxybenzoate (see p-Hydroxybenzoate).
Methyl parathion, tech., 80%, dms., frt. alld. E..lb. .84 • —

Methyl parathion prices 2c. per lb. higher in West.

Methyl roseaniline chloride, NF., 5-lb. fib. dms..lb. 6.90 • —
Methyl salicylate, dms., t.l., frt. alld..lb. .60¼- —
dms., l.c.l., same basis.....lb. .62½- .67½
Methyl testosterone, USP, 100-gram bots gram. No Prices.
2-Methyl-5-vinyl pyridine, 40-dm. lots or more, f.o.b. works..lb. 1.30 • —
5-39 dm. lots, same basis.....lb. 1.35 • —
tanks, same basis.....lb. 1.25 • —

quality...uniformity...dependable service



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Methyl Violet Toner—Para-tertiary Butylphenol

Methyl violet toner, molybdated, PMA, bbls., dlvd. E. of Rockies lb. 2.80 - —
Tungstated, PTMA, bbls., same basis lb. 4.35 - —
Methyl violet prices 1c. higher W. of Rockies.
Methylene blue, fib. dms., 100-lb. lots, frt. adjusted lb. 3.25 - —
Methylene chloride, tech., straight or assorted, dms., c.l., or t.l., dlvd lb. .13½- —
dms., l.c.l., l.t.l., dlvd lb. .15¾- —
tanks, 4,000-gal. min., dlvd lb. .12¼- —
tanktrucks, 1,000-gal. min., dlvd. lb. .13¼- —
b-Methylnaphthalene, 32°C., m.p., dms., works lb .90 - —
Methylpentanediol (see Hexylene glycol).
Methylphenylpyrazolone (see 1-phenyl-3-methyl-pyrazolone-5).
Methylthionine chloride (see Methylene blue).
Mica, dry-grd., paint, plastic, 100 mesh, bgs., c.l., works lb. .04 - —
roofing, 20 to 80 mesh, works lb. .03 - —
wet-grd., biotite, bgs., c.l., works, frt. alld.E lb. .06½- —
bgs., l.c.l., ex-whse. lb. .07¼- —
paint or lacq., bgs., c.l., 325 mesh, works, frt. alld. E. lb. .08¼- —
bgs., l.c.l., ex-whse or freight alld. E lb. .09 - —
Mica, wet-grd., rubber, bgs., c.l., works, frt. alld. E lb. .08 - —
bgs., l.c.l., ex-whse, or frt. alld. E lb. .08¾- —
wallpaper, bgs., c.l., works, frt. alld.E lb. .08¾- —
bgs., ex-whse. or frt. alld. E. lb. .09 - —
white, 5-10 microns, bgs., c.l., works, frt. alld. E lb. .08¼- —
Mica, wet-grd. W. of Miss. ½c. higher; W. of Rockies 1c. higher.
Microcrystalline wax, petroleum, coating grades, tankcars, works lb. .10 - .11
laminating grades, tankcars, works lb. .11 - .12
Mineral black, bgs., works lb. .0160- .0673
Mineral oil, white, tech., 50-65 vis., non-ret. dms., c.l., f.o.b. refy gal. .65 - —
50-65 vis., non-ret. dms., l.c.l., basis gal. .70 - —
tankscars, refy. gal. .49 - —
Mineral oil, white, tech., 65-75 vis., non-ret. dms., c.l., same basis gal. .65 - —
non-ret. dms., l.c.l., same basis gal. .70 - —
tankcars, refy. gal. .49 - —
NF, 80-90% vis., non-ret. dms., c.l., same basis gal. .66 - —
non-ret. dms., l.c.l., same basis gal. .71 - —
tankcars, refy. gal. .50 - —
NF, 135-138 vis., non-ret. dms., c.l., same basis gal. .72 - —
Mineral oil, white, NF, 135-138 vis., non-ret. dms., l.c.l., same basis gal. .77 - —
tankcars, rfy. gal. .56 - —
NF, 145-155 vis., non-ret. dms., c.l., same basis gal. 78 - —
non-ret. dms., l.c.l., same basis gal. .83 - —
tankcars, refy. gal. .62 - —
Mineral oil, white, USP, 180-190 vis., non-ret. dms., c.l., same basis gal. .80½- —
non-ret. dms., l.c.l., same basis gal. 85½- —
tankcars, refy. gal. .64½- —
USP, 200-210 vis., non-ret. dms., c.l., f.o.b. refy gal. .82½- —
non-ret. dms., l.c.l. gal. .87½- —
tankcars, refy gal. .66½- —
USP, 340-350 vis., non-ret. dms., c.l., f.o.b. refy gal. 87½- —
non-ret. dms., l.c.l. gal. 92½- —
tankcars, refy. gal. .71½- —
(For f.o.b N. Y. add 2c. for tankcars; 2c. for c.l., and 3c. for l.c.l. non-ret. dms.).
Mineral orange, American, bbls., c.l., works lb. .17 - —
bbls., c.l., same basis lb. .18 - —
Mineral spirits, petroleum, odorless, tankcars, New Jersey gal. .29 - —
New York gal. .305 - —
Houston, Texas gal. .25 - —
regular, tankcars, New Jersey and New York gal. .18 - —
Group 3 gal. .12875- —
Houston, Texas gal. .145 - —
140 F. flash, New York, New Jersey at terminal gal. .205 - —
Houston, Texas gal. .17 - —
Mink oil, dms. lb. 2.75 - —
Mirbane oil (see Nitrobenzene).
MNPT maroon toner, kgs., c.l., works lb. 6.30 - —
Molasses, blackstrap, feed grade, tanks, New Orleans gal. .11¼- .12
tanks, New York gal. .13½- —
Molybdated orange, bbls. lb. .49 - —
Molybdenum metal, powd., 80 or 200 mesh, ctns., works kilo. 7.84 - —
325 mesh, ctns., works kilo. 9.13 - —
Molybdenum trioxide, purif., dms., works lb. 1.15 - —
Tech., chemical, dms., works, basis Mo content lb. 1.48 - —
Tech., metallurgical, dms., works, basis Mo. content lb. 1.47 - —
Molybdic acid, 85%, dms., works. lb. 1.05 - 1.15
Monoallylamine, dms., c.l., dlvd lb. .965 - —
dms., c.l., dlvd. lb. .995 - —
tanks, dlvd. lb. .96 - —
Monobutylamine, dms., c.l., dlvd. E. of Rockies lb. .57½- —
dms., l.c.l., same basis lb. .59 - —
tanks, same basis lb. .55 - —
Mono-tert-butyl-m-cresol, dms., c.l., works lb. .55 - —
dms., l.c.l., works lb. .56 - —
tanks, works lb. .54 - —
Mono-tert-butyl-m-cresol, dms., c.l., works lb. .55 - —
dms., l.c.l., works lb. .56 - —
tanks, works lb. .54 - —
Monochloracetic acid, purif. (see Chloroacetic acid, mono).
Monochlorobenzene, dms., c.l., frt. alld. or dlvd. E lb. .10½- —
dms., l.c.l., same basis lb. .11½- —
tanks, same basis lb. .08¾- —
Monoethanolamine, dms., c.l., dlvd. E lb. .27½- —
dms., l.c.l., same basis lb. .29 - —
tanks, same basis lb. .25 - —
Monoetnylalphanaphthylamine (see
Monoethylamine, 70% aqueous, solution, dms., c.l., dlvd. E. 100% basis lb. .38½- —
dms., l.c.l., dlvd. E., 100% basis, lb. .40 - —
tanks, dlvd. E., 100% basis lb. .35 - —
Monoethylaniline (see N-Ethylaniline).
Monoethylortho-toluidine (see N-Ethyl-o-toluidine).
Monoisopropanolamine, dms., c.l., dlvd. E. lb. .27½- —
dms., l.c.l., same basis lb. .29 - —
tanks, same basis lb. .25 - —
Monoisopropylamine, anhyd., dms., c.l., dlvd lb. .33½- —
dms., l.c.l., same basis lb. .35 - —
tanks, same basis lb. .31 - —
Monomethylamine, anhyd., cyls., l.c.l., frt. equald., 100% basis lb. .30 - —
tanks, 100% basis lb. .26 - —
30-35% soln., dms., c.l., frt. equald., 100% basis lb. .36 - —
Monomethylamine, 30-35% soln., dms., l.c.l., frt. equald, 100% basis lb. .36½- —
tanks, frt. equald., 100% basis. lb. .26 - —
40% soln., dms., frt. equald., 100% basis lb. .33 - —
dms., l.c.l., frt. equald., 100% basis lb. .33½- —
tanks, frt. equald, 100% basis.lb. .26 - —
Monopentaerythritol, tech., bgs., c.l., dlvd. E lb. .31 - —
bgs., l.c.l., dlvd. E lb. .32 - —
Monopotassium glutamate, dms., 1,000-lb. lots, frt. alld. lb. 3.05 - —
dms., 100-lb. lots, same basis lb. 3.25 - —
Monosodium glutamate, dms., dlvd. lb. 1.07 - 1.15
Monosodium phosphate (see sodium phosphate, monobasic).
Montan wax, Calif., refd., bgs lb. .27 - .28
Imp., crude, Bohemian, bgs lb. .21 - .22
German, bgs. lb. .25 - .26
Morphine, cns., 100-oz., f.o.b. works. oz. 12.35 - —
Morphine hydrobromide, cns., 100-oz., f.o.b. works oz. 9.90 - —
Morphine hydrochloride, NF, cns., 100-oz., f.o.b. works oz. 9.90 - —
Morphine sulfate, USP, cns., 100-oz., f.o.b. works oz. 9.90 - —
Morpholine, dms., c.l., dlvd. E. lb. .55¼- —
dms., l.c.l., dlvd. E lb. .56¼- —
tanks, dlvd. E lb. .52¾- —
Muriatic acid (see Hydrochloric acid).
Musk, syn., ambrette, fib. dms., 100-lb. lots lb. 4.40 - 4.90
cns., 25-lb. lots lb. 4.50 - 5.00
Ketone, fib. dms., 100-lb. lots lb. 4.60 - 5.10
cns., 25-lb. lots lb. 4.70 - 5.20
Xylol, fib. dms., 100-lb. lots lb. 1.26 - —
cns., 25-lb lots lb. 1.40 - —
Mustard seed, Danish, yellow, bgs. lb. .14 - —
Montana, yellow, bgs lb. .10½- —
Oriental, bgs lb. .08 - —
Mustard, oil, syn., bots. lb. 1.60 - 1.85
Myristic acid, bgs. lb. .26¾- .29¼
tanks lb. .25¾- —
Myrrh gum, cs. lb. .65 - .75

N

Naphtha, high solvency (see Solvent naphtha, petroleum).
Naphtha, petroleum, cleaner's (see Cleaner's naphtha).
Naphtha, VM&P, petroleum, tankcars, New Jersey and New York gal. .19 - —
Group 3 gal. .13875- —
Houston, Texas gal. .155 - —
Naphthalene, crude, dom., 78°, tanks, frt. equald lb. .06 - —
imp., 78°, bgs., large lots lb. .09½ Nom.
Refd., indust., chipped, crushed, bgs., frt. equald lb. .13½- —
tanks, same basis lb. .10¾- —
Naphthalene, refd., indust., balls, flakes, wholesalers, jobbers, bbls., c.l., same basis. lb. .15½- —
cs., 50 lbs., c.l., same basis. lb. .15¾- —
1-lb. pkgs., c.l., same basis. lb. .19½- —
a-Naphthol, dms., frt. alld lb. 1.02 - —
b-Naphthol, tech., flake, bbls., c.l., works lb. .24 - —
bbls., l.c.l., works lb. .33 - —
Naphthol, ITR, red toner, bbls., works lb. 5.00 - —
1-Naphthol-3,6-disulfonic 8-amino acid (see H acid).
1-Naphthol-4 sulfonic acid (see Neville and Winther's acid).
1-Naphthol-5-sulfonic acid (see L acid).
1-Naphthol-5-sulfonic 8-amino acid (see S acid).
2-Naphthol-6,8-disulfonic acid (see Gamma acid).
Naphthol sulfonic mixed acid (see Cleve's acid).
a-Naphthylamine, dms., frt. alld lb. .52 - —
b-Naphthylamine, tech., flake, bbls., works lb. 1.60 - —
1-Naphthylamine-5-sulfonic acid (see Laurent's acid).
2-Naphthylamine-4,8-disulfonic acid (see Cassella acid).
2-Naphthylamine-1-sulfonic acid (see Tobias acid).
2-Naphthylamine-6-sulfonic acid (see Broenner's acid).
2-Naphthylamine-7-sulfonic acid (see F acid).
Naringin, fib. dms. lb. 8.50 - —
Neatsfoot oil, 15° cold test, dms lb. .29 Nom.
20° cold test, dms. lb. .28 Nom.
30° cold test, dms. lb. .27 Nom.
Neocinchophen, USP, dms., frt. adjusted lb. 7.00 - 8.00
Neomycin sulfate, fib. dms., 1-kilo basis activity gram. .25 - —
fib. dms., 100-999-gram lots, basis activity gram. .30 - —
Tech., fib. dms. gram. .13½- —
Neopentylglycol, dms., c.l., dlvd lb. .32 - —
dms., l.c.l., same basis lb. .33 - —
Nerol, dms. lb. 4.75 - —
Neroli oil, NF, French, bots. lb. 425.00 -575.00
Tunisian, bots. lb. 400.00 - —
Nerolin, cns. lb. 2.45 - 2.85
Neville and Winther's acid, dms., frt. alld. lb. 1.40 - —
Niacinamide (see Nicotinamide).
Nickel acetate, bbls., dlvd. lb. .68½- .75½
Nickel carbonate, bbls., dlvd. lb. 78¼- .85¼
Nickel chloride, bbls., dlvd. lb. .37 - .45
Nickel formate, bbls., ton lots, frt. alld. lb. .72 - .73
Nickel metal, electro cathodes, cs., works lb .74 - —
Nickel nitrate, dms., frt. alld. lb. .31½- .33½
Nickel oxide, black, bbls. lb. .85 - —
Green, bbls. lb. .84 - —
Nickel sulfate, bgs., c.l., dlvd. lb. .28 - —
bgs., l.c.l., dlvd. lb. .28½- .36
Nicotinamide, USP, 50-kilo., dms., 100 kilos., dlvd. kilo. 6.50 - —
dms., less than 100 kilos, dlvd. kilo. 6.60 - 7.00
Nicotine sulfate, 40%, dealers, 50-lb. dms. frt. alld lb. 1.20 - —
40%, manufacturers, 500-lb. dms., frt. alld. lb. 1.05 - —
Nicotinic amide, USP (see Nicotinamide).
Niger seed, bgs. lb. .10¼- —
Nikethamide, cbys. lb. 5.00 - —
Nitric acid, 36° Be., cbys., c.l., works E .100 lbs. 5.75 - —
cbys., l.c.l., works E..100 lbs. 6.05 - 6.85
38° Be., cbys., c.l., works E. 100 lbs. 6.25 - —
cbys., l.c.l., works E..100 lbs. 6.55 - 7.35
40° Be., cbys., c.l., works E. 100 lbs. 6.75 - —
cbys., l.c.l., works E ...100 lbs. 7.05 - 7.85
42° Be., cbys., c.l., works E. 100 lbs. 7.25 - —
cbys., l.c.l., works E 100 lbs. 7.55 - 8.35
58.5 to 68%, HNO_3, tanks, works, 100% basis .100 lbs. 3.90 - —
94½ to 95½% HNO_3, tanks, works, 100% basis .100 lbs. 4.90 - —
CP, NF, consumer, cbys., extra, c.l., works lb. .18½- —
cbys., extra, l.c.l., works. lb. .20 - —
5-pint bots., extra, cs., c.l., same basis lb. .22½- —
5-pint bots., extra, cs., l.c.l., same basis lb. .24 - .25
dms., frt. alld lb. .99 - —
m-Nitroaniline, cryst., dms., frt. alld lb. 1.15 - —
Paste, dms., frt. alld., 100% basis. lb. 1.10 - —
o-Nitroaniline, flaked, dms., t.l., frt. alld lb. .49 - —
dms., l.t.l., frt. alld. lb. .51 - —
o-Nitroaniline orange toner, kgs. lb. 1.35 - —
p-Nitroaniline, c.l., t.l., dms., frt. alld. lb. .445 - —
dms., l.c.l., same basis lb. .46½- —
o-Nitroanisole, tech., tanks, frt. alld. lb. .36 - —
p-Nitroanisole, tech., solid, dms., frt. alld lb. .72 - —
Nitrobenzene, dbl. dist., dms., c.l., frt. alld. lb. .13 - —
dms., l.c.l., frt. alld. lb. .14 - —
tanks, frt. alld. lb. .11 - —
p-Nitrobenzoic acid, dms., c.l., works lb. .63 - —
4-Nitro-2-aminophenol, tech., paste, dms., l.c.l., works lb. .64 - —
Nitrocellulose, ester-soluble, 30-35 cps., ¼, ½, ¾, 5-6, 15-20, 30-40, 60-80, 125-175 seconds, bbls., c.l., works lb. .37½- —
bbls., l.c.l., same basis lb. .33½- .40½
18-20, cps., bbls., c.l., same basis lb. .39½- —
bbls., l.c.l., same basis lb. .40½- .42½
250-400, 600-1,000 seconds, bbls., l.c.l., same basis lb. .43 - .46
Nitrocellulose, spirit soluble, 30-35 cps., ¼, ½ seconds, bbls., c.l., same basis lb. .43 - —
bbls., l.c.l., same basis lb. .44 - .46
5-6 cps., 40-60 seconds, bbls., c.l., same basis lb. .42 - —
bbls., l.c.l., same basis lb. .43 - .45
Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Drums extra but returnable.
o-Nitrochlorobenzene, dms., c.l., frt. alld lb. .15 - —
dms., l.c.l., same basis lb. .16 - —
tanks, same basis lb. .13 - —
p-Nitrochlorobenzene, dms. lb. .26 - .27
2-Nitro-p-cresol, tech., dms., dlvd lb. .88 - —
Nitroethane, dms., c.l., dlvd. E .. lb. .25 - —
dms., l.c.l., dlvd. E lb. .26½- —
tanks, dlvd. E. lb. .22½- —
Nitroethane prices West of Rockies are 1c. higher.
Nitrogen solutions, tanks, f.o.b. works. ton. 164.00 - —
Nitrogen tetroxide, indust., tankcars, f.o.b. Hopewell, Va lb. .065 - —
Cyls., t.l., min. 5 tons, same basis lb. .07½- —
Cyls., l.c.l., l.t.l., same basis lb. .15 - —
Nitrogenous process tankage, bulk, works unit-ton. 4.50 - 5.00
Nitrogenous sewage sludge, bulk, f.o.b. Chicago, works. unit-ton. 2.95 - —
Nitromethane, dms., t.l., dlvd. E lb. .25 - —
dms., l.c.l., dlvd. E lb. .26½- —
Nitromethane prices West of Rockies are 1c higher.
a-Nitronaphthalene, bbls., frt. alld. lb. .31 - —
o-Nitrophenol, dms., works, frt. equald lb. .94 - —
p-Nitrophenol, dms., c.l., frt. alld. lb. .45 - —
dms., l.c.l., frt. alld lb. .47 - —
1-Nitropropane, dms., c.l., frt. alld. E. of Rockies lb. .23½- —
dms., l.c.l., same basis lb. .25 - —
tanks, same basis lb. .21 - —
2-Nitropropane, dms., c.l., frt. alld. E. of Rockies lb. .18½- —
dms., l.c.l., same basis lb. .20 - —
tanks, same basis lb. .16 - —
Nitropropane prices West of Rockies are 1c. per lb. higher.
m-Nitrotoluene, tech., dms., frt. alld. lb. .50 - —
o-Nitrotoluene, dms., c.l., frt. alld lb .15 - —
dms., l.c.l., frt alld. lb. 16 - —
tanks, frt. alld. lb. .13 - —
p-Nitrotoluene, tech., cast, dms., c.l., works lb. .27½- —
dms., l.c.l., works lb. .28 - —
flake, dms., c.l., t.l., works lb. .27½- —
dms., l.c.l., works lb. .28 - —
m-Nitro-p-toluidine, dms. lb. 1.25 - —
Nonylphenol, dms., c.l, frt. alld. lb. .22½- —
dms., l.c.l., frt. alld lb. .23½- —
tanks, frt. alld lb. .20 - —
Nonylphenol prices on shipments to Western States are 2c. higher.
Nutmegs, East Indian, whole, bgs. lb. 1.34 - 1.35
West Indian, bgs. lb. 1.28 - 1.29
Nutmeg oil, USP, dist., East Indian, cns. lb. 9.00 -12.00
West Indian, cns. lb. 9.00 -12.00
Nux vomica, bls. lb. .20 - —
Powd., bbls., bxs. lb. .20 - .22

O

Ocher (see Iron oxide yellow, nat.).
Ocotea cymbarum oil, dms. lb. .45 - .48
Octane, indust., tanks, Bayonne, N.J. gal. .20 - —
Borger, Tex. gal. .15¾- —
1-Octanol, tech., dms., c.l., dlvd., Zone 1 lb. .43½- —
dms., l.c.l., dlvd. Zone 1—lb. .45½- —
tanks, dlvd., Zone 1 lb. .41 - —
Octyl alcohol, perfumers grade, bots. lb. 1.60 - 3.25
Octyl alcohol, tech, (see 1-Octanol, tech).
tert-Octylamine, dms., c.l., t.l., f.o.b. works lb. .54½- —
dms., l.c.l., same basis lb. .55 - —
Octylphenol, bgs., c.l., works lb. .22½- —
bgs., l.c.l., works lb. .23 - —
tanks, works lb. .21½- —
Octylphenol in dms., 11c. higher.

OILS
Oil quotations are listed individually. For example, prices on Oil, coconut, may be found in the C's under Coconut oil.

Officiea yl iis., dms. lb. .16 - .16½
tanks lb. .14 - —
Oleic acid, dbl.-dist. (white), dms. lb. .17½- .20
tanks lb. .15 - —
S.d., dms. lb. .16¼- .18¾
tanks lb. .13¾- —
Oleo oil, extra, dms. lb. .14½- .14¾
Oleostearine, dms. lb. .12½- .12¾
Oleum (see Sulfuric acid, fuming).
Olibanum gum, siftings, cs. lb. .15 - .20
Tears, cs. lb. .22 - .30
Olibanum oil, bots. lb. 5.00 - 7.65
Extra fine, bots. lb. 8.00 - 9.50
Olive oil, edible, dms., spot, duty-paid gal. 2.25 - 2.35
Olivine, crude, works ton. 12.00 - —
20 mesh, works ton. 15.00 - —
100 mesh works ton. 20.00 - —
Opium, USP, cns., 25-lbs., f.o.b. works oz. 19.20 - —
gran., cns., 50 lbs., same basis. oz. 21.65 - —
powd., cns., 50 lbs., same basis. oz. 21.65 - —
Orange oil, expressed, USP, Calif., cns., dms. lb. .70 - .90
Calif., sweet., cns., dms lb. .60 - —
Florida, cns., dms. lb. .45 - .50
Messina, cns. lb. 3.25 - 5.00
West Indian, bitter, cns., dms., lb. 2.50 - 3.50
Orange peel, bitter, Haitian, bls lb. .18 - .20
Sweet lb. .28 - .30
Origanum oil, Spanish, cns. lb. 1.80 - 2.30

ORANGE PIGMENTS
Orange pigment quotations are listed individually. For example, prices on Orange, chrome, may be found in the C's under Chrome orange.

Orris root, Florentine, bls. lb. .55 - —
powd., bbls., bxs. lb. .65 - —
Verona, bls. lb. .35 - —
powd., bbls., bxs. lb. .45 - —
Orthoanisidine (see o-Anisidine).
Orthochlorobenzaldehyde (see o-Chlorobenzaldehyde).
Orthochloroaniline (see o-Chloroaniline).
Orthochlorobenzoic acid (see o-Chlorobenzoic acid).
Orthochloroparanitroaniline (see 2-Chloro-4-nitroaniline).
Orthochlorophenol (see o-Chlorophenol).
Orthocresol (see o-Cresol).
Orthocresotinic acid (see 2,3-Creosotic acid).
Orthodichlorobenzene (see o-Dichlorobenzene).
Orthonitroaniline (see o-Nitroaniline).
Orthonitrochlorobenzene (see o-Nitrochlorobenzene).
Orthonitroparachlorophenol (see 2-Nitro-4-Chlorophenol).
Orthonitrophenol (see o-Nitrophenol).
Orthonitrotoluene (see o-Nitrotoluene).
Orthophenetidine (see o-Phenetidine).
Orthophenylphenol (see o-Phenyl phenol).
Ortho-tertiary amylphenol (see o-tert-Amylphenol).
Orthotolidine (see o-Tolidine base).
Orthotoluidine (see o-Toluidine).
Ouabain, USP, bots. gram. 3.00 - 4.00
Ouricury wax, crude, bgs. lb. .54 - .55
Refd., pure, bgs. lb. .60 - .62
Oxalic acid, bgs., c.l., works lb. .18 - —
bgs., 10,000-lb. lots, works lb. .19 - —
bgs., smaller lots, works lb. .20½- —
Oxalic acid in drums is priced ½c. per lb. higher.
b-Oxynapnthoic acid, pigment manufacture, dms., frt. alld lb. .912 - —
Dyestuff manufacture, dms., same basis lb. 1.03 - 1.14
Oxyquinolin sulfate, cns., 100-lb. lots, works lb. 4.75 - 5.00
cns., smaller lots, works lb. 4.92 - 5.17

P

Palm oil, clarif., dms lb. .1440- .1540
tanks lb. .1150- —
Palm oil acid, dist., dms. lb. .15¾- .19¼
tanks lb. .13¾- .14¼
Palmarosa oil, cns. lb. 4.45 - 6.00
Papain, powd., bots. lb. 5.50 -10.00
Papaverine hydrochloride, nat. or syn., USP, cns., 25-oz. to 100-oz. lots. oz. 5.00 - —
cns., smaller lots oz. 5.05 - 5.20
Papaverine sulfate, nat. or syn., USP, cns. oz. 7.10 - 7.35
Paprika, Bulgarian, bgs. lb. .27 - —
Hungarian, bgs. lb. .29 - —
Spanish, bgs lb. .33 - —
Yugoslavian, bgs. lb. .29 - .30
Para-aminobenzoic acid (see p-Aminobenzoic acid).
Parachlorobenzoic acid (see p-Chlorobenzoic acid).
Paramethylphenylcinchonic acid (see Neocinchophen).
Paranitrobenzoic acid (see p-Nitrobenzoic acid).
Paratoluidinemetasulfonic acid (see p-Toluidine-m-sulfonic acid).
Para-aminophenol (see p-Aminophenol).
Parachlorophenol (see p-Chlorophenol).
Parachloro-orthonitroaniline (see 4-Chloro-2 nitroaniline).
Para-anisidin (see p-Ansidine).
Parachloraniline (see p-Chloraniline).
Parachlorobenzaldehyde (see p-Chlorobenzaldehyde).
Paracresol (see p-Cresol).
Paradibromobenzene (see p-Dibromobenzene).
Paradichlorobenzene (see p-Dichlorobenzene).
Para toner, red, bbls. lb. 1.21 - —
Chlorinated, bgs. lb. 1.36 - —
Paraffin, crude, scale, white, 123°-127°F., ASTM, tanks, refy. lb. .0655- —
Paraffin, fully refd., 122°-124°F., ASTM, tanks, refy. lb. .0765- —
125°-127°F., ASTM, tanks, refy. lb. .0765- —
130°-132°F., ASTM, tanks, refy. lb. .0765- —
132°-134°F., ASTM, tanks, refy. lb. .0765- —
135°-137°F., ASTM, tanks, refy. lb. .0765- —
AMP temperatures are an arbitrary 3°F. higher than ASTM.
Paraffin oil, pale, 100-110 vis., at 100°F., tanks east coast refy. gal. .14 - —
Paraffin wax (see Paraffin).
Paraformaldehyde, 91%, flake, bgs., c.l., frt. alld. lb. .10 - —
bgs., l.c.l., frt. alld lb. .12 - .13
91%, powd., bgs., c.l., ex whse. lb. .1715- —
bgs., l.c.l., ex whse lb. .1865- —
USP-X, fib. dms., c.l. lb. .19 - —
fib. dms., 1,000-lb. lots lb. .20 - —
fib. dms., smaller lots lb. .21½- —
Paraldehyde, tech., 98%, 55-gal. dms., t.l., dlvd lb. .14 - —
55-gal. dms., l.c.l., dlvd lb. .15 - —
tanks, dlvd. lb. .11½- —
Paranitroaniline (see p-Nitroaniline).
Paranitrochlorobenzene (see p-Nitrochlorobenzene).
Paranitrotoluene (see p-Nitrotoluene).
Paranitrophenol (see p-Nitrophenol).
Paraphenetidine (see p-Phenetidine).
Paraphenylenediamine (see p-Phenylenediamine).
Paraphenylphenol (see p-Phenylphenol).
Para-tertiary-amylphenol (see p-tert-Amylphenol).
Para-tertiary butylphenol (see p-tert-Butylphenol).

Parathion, ethyl, dms., frt. alld. lb. .84 - —
Parathion prices 2c. per lb. higher in West.
Paratoluenesulfonamide (see p-Toluenesulfonamide).
Paris green, dealers, 100 lb. dms., frt. alld. lb. .45 - —
Passion flower herb, bls. lb. .35 - .40
Patchouli oil, imp., cns. lb. 5.60 - 6.50
Peach kernel oil, USP (see Apricot kernel oil).
Peacock blue, fugitive, 100% color strength, 250-lb. bbls., dlvd. E. of Rockies. lb. 1.00 - —
Peacock blue price 1c. higher W. of Rockies.
Peanut meal, old process, 45%, bgs., f.o.b. mills ton.57.00 -60.00
solvent, same basis ton.55.00 Nom.
Peanut oil, crude, tanks, f.o.b. mills. lb. .15½- —
Refd., dms. lb. .20¾- .21
tanks lb. .18¾- —
Pectin, dom., NF, citrus, powd., bbls. lb. 2.05 2.06
Dom., tech., powd., 150 jelly grade, bbls lb. 1.28 - —
Imp., Danish, bbls., ex whse lb. 1.28 - —
Pelargonic acid, dms., c.l., dlvd. lb. .25 - —
ton lots, same basis lb. .27½- —
tanks, same basis lb. .23½- —
Penicillin, potassium, cryst., bulk, 1,000,000 units. .021 - —
Penicillin, procaine, cryst., bulk, 1,000,000 units. .023 - —
Pennyroyal oil, USP, imported, cns. lb. 1.95 - 2.70
Pentachlorophenol, bgs., c.l., t.l., works, frt. equald lb. .21 - —
bgs., l.c.l., same basis lb. .22½- .29
Pentachlorophenol in dms. 1c. higher.
Pentaerythritol, tech., bgs., c.l., dlvd lb. .31 - —
bgs., l.c.l., dlvd. lb. .32 - —
Pentaerythritol, di- and tri-isomers (see Dipentaerythritol and Tripentaerythritol).
Pentane, indust., tanks, Tex. refy. gal. .14 - —
Pentobarbital, dms., 100 lbs. or more lb. 6.00 - —
Pepper, black, Malabar, bgs. lb. .51 - —
Lampong, bgs. lb. .51 - —
Red, Funtuas, bgs. lb. .32 - —
Japanese, Hontoka, bgs. lb. .37½- —
Santaka, bgs. lb. .31½- —
Sudanese, bgs. lb. .36 - —
White, Muntok, bgs. lb. .78 - —
Peppermint leaves, dom., USP, bls., dms lb. .70 - .75
Imp., USP, bls. lb. .85 - —
Peppermint oil, nat., dms lc. 4.25 - —
Redist., USP, dms lb. 4.35 - —
Perchloroethylene, dms., c.l., or t.l., dlvd lb. .13½- —
dms., l.c.l., dlvd. lb. .15¼- —
tanks, dlvd. lb. .11¾- —
tanktruck, 1,000 gal. min. dlvd lb. .12¼- —
Peri acid, dry, bbls., frt. alld. lb. 1.60 - —
Paste, bbls., frt. alld. lb. 1.55 - —
Peru balsam, dms. lb. 1.10 - 1.50
Persic oil, USP (see Apricot kernel oil).
Petitgrain oil, South American, cns., dms lb. 2.40 - —
Petrolatum, cream, dms., c.l., refy. lb. .08125- —
dms., l.c.l., dlvd. lb. .10125-.11375
tanks, refy. lb. .05875- —
Extra amber, dms., c.l., refy lb. .07125- —
dms., l.c.l., dlvd. lb. .09125-.10375
tanks, refy. lb. .04875- —
Petrolatum, lily white, dms., c.l., refy lb. .08625- —
dms., l.c.l., dlvd. lb. .10625- .12
tanks, refy. lb. .06735- —
USP, snow white, dms., c.l., refy. lb. .09125- —
dms., l.c.l., dlvd lb. .11125- .125
tanks, refy. lb. .06875- —
Petrolatum, USP, soft yellow, dms., c.l., refy lb. .07125- —
dms., l.c.l., dlvd. lb. .095 - .10375
tanks, refy. lb. .04875- —
Petroleum pitch (see Asphalt, petroleum).

PETROLEUM PRODUCTS
Petroleum product quotations are listed individually. For example, prices on Petroleum, mineral spirits, may be found in the M's under Mineral spirits, petroleum.

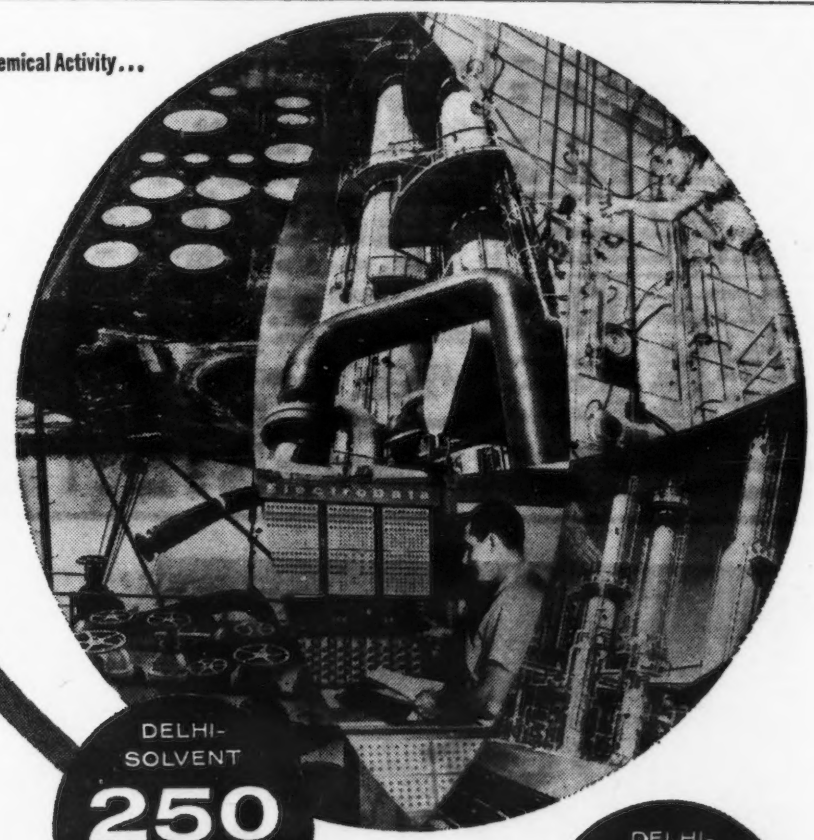
Petroleum sulfonate, oil soluble, 60-62% sulfonic content, non-ret. dms., c.l., works. lb. .16½- .18¾
non-ret. dms., l.c.l., works lb. .17½- .19
tanks, works lb. .14½- .17
50-55%, sulfuric content, non-ret. dms., c.l., works lb. .16 - —
non-ret. dms., l.c.l., works lb. .17 - —
tanks, works lb. .13 - —
o-Phenetidine, dms., c.l., frt. alld. E. lb .91 - —
dms., l.c.l., same basis lb. .93 - —
p-Phenetidine, dms., c.l., frt. alld. lb. 1.05 - —
dms., same basis lb. 1.08 - —
Phenobarbitol, USP, dms., 100-lbs., frt. alld lb. 3.25 - —
Phenobarbital-Sodium (see sodium phenobarbital).
Phenol, 90-92% (cresol 8-10%), non-ret. dms., frt. alld. E. of Rockies lb. .16¾- —
non-ret. dms., l.c.l., same basis. lb. .17¾- —
tanks, same basis lb. .14¾- —
82-84% (cresol 16-18%) non-ret. dms., c.l., same basis lb. .16½- —
non-ret dms., l.c.l., same basis. lb. .17½- —
tanks, same basis lb. .14½- —
30°C., or above, tar dist., non-ret. dms., c.l., same basis lb. .18 - —
Phenol, 30°C., or above, tar dist., non-ret. dms., l.c.l., same basis. lb .19 - —
tanks, same basis lb. .16 - —
USP, syn., dms., c.l., t.l., frt. alld. lb. .18½- —
dms., same basis lo. .20½- —
tanks, same basis lb. .16½- —
Phenolphthalein, USP or yellow, 250-lb. dm., 2,000 lbs., frt. alld. lb. 1.30 - —
250-lb. dm., same basis lb. 1.35 - —
Phenothiazine drench, fib. dms., t.l., dlvd. lb. .44 - —
fib. dms., l.t.l., same basis lb .47 - —
NF, fib. dms., t.l., same basis lb. .43 - —
fib. dms., l.t.l. same basis lb. .46 - —
Phenyl acetate, dms., 100-lb. lots, works lb. .50 - —
Phenyl salicylate (see Salol).
Phenylacetaldehyde, soln., 50%, bots. lb. 2.35 - —
100%, bots. lb. 4.00 - 4.65
Phenylacetic acid, pure, cryst., cns. lb. 1.25 - 1.75
dl-Phenylalanine, dms., works lb.27.00 -37.50
l-Phenyl-3-carbethoxy pyrazolone-5, fib. dms., 200-lb. lots, dlvd. E. lb. 3.45 - —
fib dms., smaller lots, dlvd. E. lb. 3.80 - —
N-Phenyldiethanolamine, dms., c.l., dlvd. E. lb. .41 - —
dms., l.c.l., dlvd. E. lb. .42½- —
tanks, dlvd. E. lb. .38½- —

m-Phenylenediamine, dms., frt. alld. lb. 1.10 - —
o-Phenylenediamine, coml, fib. dms, 100 to 1,000 lbs., works. lb. 1.70 - 1.80
p-Phenylenediamine, tech., dms, works lb. 1.55 - —
Phenylethanolamine, dms., c.l., works lb. .75½- —
dms., l.c.l., same basis lb. .77 - —
Phenylethyl acetate, bots. lb. 1.25 - 1.40
2-Phenylethyl alcohol, extra, dms. lb. 1.14 - 1.50
Standard, dms. lb. 1.10 - 1.60
b-Phenylethylamine, dms., 20,000 lbs. or more, frt. alld. lb. 1.50 - —
dms., smaller lots, frt. alld lb. 1.70 - 1.85
Phenylethylphenyl acetate, bots. lb. 4.00 - 4.25
Phenylglyconic acid (see Mendelic acid).
Phenylhydrazine, 97%, 450-lb. dms. lb. 1.45 - —
1-Phenyl-3-methyl pyrazolone-5, fib. dms., 250-lb. lots, dlvd. E. lb. 1.80 - —
fib. dms., smaller lots, dlvd. E lb. 2.10 - —
o-Phenylphenol, dms., l.c.l., works. lb. .43 - .50
p-Phenylphenol, bgs., c.l., works lb. .38½- —
bgs., l.c.l., works lb. .43 - —
Philippine copal gum, pale, chips, bgs lb. .23¾- .26
nubs, bgs. lb. .33¼- .37
seeds, bgs. lb. .20 Nom.
sorts, bgs. lb. .20 - .24
Phloroglucinol, coml., fib dms., works lb. 6.40 - —
CP, bots., works lb.17.75 - —
Tech., fib dms., works lb.10.45 - —
Phloxin red toner (see Eosin red toner).
Phosgene, ret. cyls., works lb. .15½- —
Phosphate, defluorinated (see under D).
Phosphate rock, Curacao, Atlantic ports, New Orleans ton.48.00 - —

Phosphate rock, Florida, land pebble, run-of-mine, washed, dried, unground, 66-68%, b.p.l., bulk, c.l., mines. short-ton. 5.298 - —
68-70%, b.p.l., bulk, c.l., same basis short-ton. 5.648 - —
70-72%, b.p.l., bulk, c.l., same basis short-ton. 6.228 - —
74-75%, b.p.l., bulk, c.l., same basis short-ton. 7.128 - —
76-77%, b.p.l., c.l., bulk, same basis short ton. 8.018 - —
Above Florida prices are based on fuel oil at $2.37 per bbl. and labor at $1.59.
Phosphoric acid, food grade, 75%, cbys., c.l., works, E., frt. equald 100 lbs. 7.00 - —
cbys., l.c.l., same basis 100 lbs. 7.25 - 7.75
tanks, t.w., works 100 lbs. 5.60 - —
80%, cbys., c.l., frt. equald 100 lbs. 7.85 - —
cbys., l.c.l., works 100 lbs. 8.10 - 9.35
tanks, t.w., works 100 lbs. 6.00 - —
NF, 85%, cbys., c.l., works. 100 lbs. 8.50 - —
cbys., l.c.l., works 100 lbs. 8.75 - 9.00
tanks, t.w., works 100 lbs. 6.65 - —
Phosphorus, amorph., red, dms., t.l., works lb. .55 - —
dms., smaller lots, works lb. .56 - .57
white (yellow), solid, dms., c.l., works, frt. equald lb. .20 - .20½
dms., l.c.l., works, frt. equald lb. .21½- —
tanks, works, frt. equald. lb. .19 - —

Phosphorus oxychloride, dms., c.l., works lb. .14 - —
dms., l.c.l., works lb. .15 - —
tanks, works, frt. equald lb. .12½- —
Phosphorus pentasulfide, powd., dms., c.l., works lb. .13½- —
dms., l.c.l., works lb. .14½- .15½
Solid, dms., c.l., works lb. .11½- —
dms., l.c.l., works lb. .12½- .13½
Phosphorus pentoxide, dms., c.l., works lb. .1375-.1475
dms., l.c.l., works lb. .1475-.1675
Phosphorus sesquisulfide, dms., cs., c.l., works lb. .38 - —
dms., l.c.l., works lb. .39 - .40
Phosphorus trichloride, dms., c.l., works lb. .14 - —
dms., l.c.l., works lb. .15 - —
tanks, works lb. .12½- —
Phthalic anhydride, bgs., c.l., works, frt. equald lb. .19 - .23
bgs., l.c.l., same basis lb. .20 - .24
tanks, same basis lb. .18½- .22¼
Phthalimide, 97-98%, dms., frt. alld lb. .65 - —
Phthalocyanine blue, full strength, bbls., dlvd. E. of Rockies. lb. 2.90 - —
Resinated, bbls., same basis lb. 2.75 - —
Water dispersable, bbls., same basis lb. 1.52 - —
Pythalocyanine blue prices 1c. higher W. of Rockies.
Phthalocyanine green toner, bbls., works lb. 3.35 - —
Resinated, bbls. lb. 3.00 - —
Water dispersable, bbls. lb. 1.71 - —
Phthalocyanine green prices 1c. higher W. of Rockies.

from the Delhi Sphere of Petrochemical Activity...



DELHI-SOLVENT 240 for paint, varnish, dry cleaning & agricultural solvent

DELHI-SOLVENT 250 for paint, varnish, metal cleaning & general purpose solvent

DELHI-SOLVENT 260 low-odor, high flash, sulfur-free, low aromatic content

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For detailed information send for our Petrochemicals File.

DELHI

CHEMICAL DIVISION
DELHI-TAYLOR OIL CORPORATION
CORRIGAN TOWER, DALLAS 1, TEXAS
415 MADISON AVE., NEW YORK 17, N. Y.
CORPUS CHRISTI • CHICAGO • CHARLESTON • BATON ROUGE • HOUSTON

Phthalylsulfacetamide—Pregnenolone Acetate

Phthalylsulfacetamide, fib. dms., 1,000-lb. lots or more lb. 5.00 - —
NF, fib. dms. lb. 5.20 - —
a-Picoline, dms., c.l., works frt equald lb. .46 - .48
dms., l.c.l., works, frt. equald lb. .46½- .49
tanks, same basis lb. .43 - .46
b-Picoline, 98%, dms., t.l., works lb. 1.05 - —
dms., l.c.l., same basis lb. 1.15 - —
tanks, same basis lb. .95 - —
b,g-Picoline, 5°C, dms., c.l., works. lb. .32½- —
dms., l.c.l., works lb. .33 - —
g-Picoline, dms., f.o.b., works lb 1.60 - —
tanks, t.l., same basis lb 1.50 - —
Picric acid, NF, bbls. lb. .85 - —
Tech., bbls lb 44 - —
Pigment green B, kgs. lb. 1.50 - —
Pilocarpine hydrochloride, USP, bots oz. 5.25 - —
Pilocarpine nitrate, USP, bots., vials. oz 5.15 - —
Pimento, Jamaican, bgs. lb. .68½- —
Mexican, bgs lb. .56 - —
Pimento berry oil, NS dms. [illegible] 9.95
Pimento leaf oil, crude, cns lb. 2.40 - 2.60
Pine oil, dest.-dist., dms., l.c.l. works lb. .15 - —
dms., l.c.l. ex whse. New York. lb. .173 - —
Steam-dist., dms., ex whse. New York lb. .185 - —
dms., dlvd lb 188 - —
Pineneedle oil, Siberian (see Abies Siberoca oil).
Pink root, bls lb. 1.75 - —
Piperazine, anhyd., dms., c.l., frt. alld lb 1.80 - —
dms., l.c.l., same basis lb. 1.85 - —
Piperazine citrate, 36%, dms., 1,000 lbs. or more, frt. alld lb. 1.15 - —
Piperazine dihydrochloride, 51%, dms., 1,000 lbs. or more, frt. alld lb 1.23 - —
Piperazine hexahydrate, 44%, dms., 1,000 lbs or more, frt. alld lb .86 - —
dms., 200-900 lbs., frt. alld lb. .89 - —
Piperazine phosphate, 42%, dms., 1,000 lbs. or more, frt. alld lb. 1.06 - —
Piperidine, dist., 98% min., dms., c.l., t.l., frt. equald lb 2.55 - —
Piperonyl butoxide, dms., dlvd. E.lb. 4.50 - 5.05

PITCHES

Pitch quotations are listed individually For example, prices on Pitch, soybean, may be found in the S's under Soybean pitch.

Platinum metal, works oz.81.00 -85.00
Pleurisy root, bls. lb. .45 - .50
Podophyllum resin, NF, dms. lb.12.50 - —
Poke root, bls. lb. .19 - .22
Polymyxin, bots., bulk., 50 billion units or more 1,000,000 units. .52 - —
bulk, bots., 25-50 billion units. 1,000,000 units. .54 - —
bulk, bots., 1-25 billion units. 1,000,000 units. .56 - —
Polyoxyethylene sorbitan monostearate, dms., 20,000-lb. lots, works lb. .42 - —
dms., 10,000-20,000-lb. lots, works. lb. .44 - —
dms., smaller lots, works lb. .47 - .49
Polyoxyethylene sorbitan tristearate, dms., 20,000-lb. lots, works lb. .42 - —
dms., 10,000-20,000-lb. lots, works lb. .44 - —
dms., smaller lots, works lb. .47 - .49
Pontianak copal gum, chips, bgs lb. .25 - —
Nubs, bgs. lb. .37 - .40
Poppy seed, Argentine, bgs. lb. No stocks.
Dutch, bgs. lb. .18 - —
Danish, bgs. lb. .16½- —
Polish, bgs. lb. .17½- —
Turkish, bgs. lb. .13½- —
Potash, caustic, liq., 45% basis, dms., c.l., works 100 lbs. 4.25 - —
dms., l.c.l., same basis 100 lbs. 5.25 - —
tanks, same basis 100 lbs. 3.70 - —
reg., flake, 88-92%, dms., c.l., same basis 100 lbs. 9.55 - —
reg., flake, 88-92%, dms., l.c.l., same basis 100 lbs.11.05 - —
solid, 88-92%, dms., c.l., works 100 lbs. 9.10 - —
dms., l.c.l., works 100 lbs.10.60 - —
Potassium acetate, NF, 200-lb. dm., f.o.b. works, E lb. .31 - —
Potassium bicarbonate, USP, gran. dms lb. .22 - —
powd., dms. lb. .24 - —
Potassium bichromate, gran., bgs., c.l., t.l., works lb. .18 - —
bgs., l.c.l., works lb. .18½- .19¾
Potassium bichromate in dms. ¾c. higher.
Potassium bitartrate, NF, gran., powd., 100-lb. bgs., c.l., frt. equald lb. .37 - —
100-lb. bgs., 5,000 lbs., 1 shipt., same basis lb. .38 - —
100-lb. bgs., smaller lots, same basis lb. .40 - —
Potassium borohydride, powd., dms., works lb.16.00 -22.00
Pelletized potassium borohydride $1.25 per lb. higher in 1,000-lb. lots.
Potassium bromate, dms., 1,000-lb. lots or more, works lb. .53½- —
dms., smaller lots, works lb. .58½- .63½
Potassium bromide, USP, gran., bbls., kgs lb. .39 - .40
Potassium carbonate, dom., NF, gran., bbls., dms lb. .20 - —
Dom., tech., powd., bbls., dms lb. .21 - .22
Dom., calcinated, bgs., c.l., works. 100 lbs. 8.50 - —
bgs., l.c.l., same basis 100 lbs. 9.55 - —
Dom., hydrated, 83-85%, bgs., c.l., works 100 lbs. 7.10 - —
bgs., l.c.l., works 100 lbs. 8.15 - —
Potassium chlorate, cryst., dms., c.l., works lb. .12¼- —
dms., l.c.l., works lb. .13½- .14½
Powd., dms., c.l., works lb. .12¾- —
dms., l.c.l., works lb. .14 - .15
works lb. .12¼- —
Potassium chlorate, NF, cryst., dms., 2,000 lbs. or more, works lb. .16¾- —
NF, gran., 25-lb. metal dms lb. .36 - —
NF, powd., dms., 2,000 lbs. or more, works lb. .17¼- —
Potassium chloride, indust., 99.9% KCL, bulk, c.l., works ton.29.00 - —
bgs., c.l., works ton.33.50 - —
99.3% KCL, bulk, c.l., works ton.28.00 - —
bgs., c.l., works lb.32.50 - —
USP, cryst., dms. lb. .20 - .22
USP, gran., dms. lb. .21 - .23
USP, powd., dms. lb. .24 - .26
Potassium chloride agricultural (see Potassium muriate).
Potassium chromate, tech., dms., works lb. .50 - .51
Potassium citrate, NF, gran., 250-lb. dms., f.o.b. works E lb. .43 - —
powd., 250-lb dms., same basis, lb. .46 - —
Potassium cyanide, dms., 20,000-lb. lots or more, works lb. .42½- —
dms., 2,000-19,999-lb. lots, works, lb. .43 - —
dms., smaller lots, works lb. .44 - .44½
Potassium dichromate (see Potassium bichromate).
Potassium ferricyanide, dms., ton lots, works lb. .50 - —
dms., smaller lots, works lb. .65 - —
Potassium ferrocyanide, dms., ton lots lb. .24½- —
dms., smaller lots lb. .29 - —
Potassium fluoborate, fib. dms., c.l., works lb. .30 - —
fib dms., l.c.l., works lb. .31 - —
Potassium fluoride, dms., works lb. .37 - .38
Potassium gluconate, 100-lb dm., f.o.b. works E lb. 1.67 - —
Potassium guaiacol sulfonate, NF, dms lb. 2.10 - 2.30
Potassium hydroxide, tech. (see Potash caustic).
Potassium hydroxide, USP, pellets, 100-lb dms., 1 to 100-dm. lots lb .33½- .38
Potassium hypophosphite, NF, fib. dms., 1,000-lb. lots lb. 1.38 - —
Potassium iodide, USP, cryst., gran., or powd., 250-lb. dm., f.o.b. works lb. 1.40 - —
Potassium manure salt, min. 20% K_2O, bulk, c.l., works. unit-ton. .17 - .1765
Potassium metabisulfite, gran., dms., lb. .16 - —
Powd., dms. lb. .27 - —
Potassium muriate, standard, bulk, c.l., works unit-ton. .34 - .36
bagged 60% minimum K_2O, same basis ton.25.40 -26.60
Gran., bulk, c.l., works unit-ton. .35 - .37
bagged, 60% minimum K_2O, same basis ton.26.00 -27.20

Inside prices apply to material contracted for prior to July 1, 1959.

Outside prices apply to material contracted for after that date but also for delivery during the current month.

Potassium nitrate, NF, cryst., bbls., 20-ton lots 100 lbs.17.00 - —
bbls., smaller lots 100 lbs.18.00 -19.00
gran., bgs., 20-ton lots 100 lbs. 9.50 - —
bgs., smaller lots 100 lbs.11.00 -12.00
powd., bgs., 20-ton lots 100 lbs.10.50 - —
bgs., smaller lots 100 lbs.12.00 -13.00
Potassium oxalate, neutral, tech., fine gran., powd., 300-lb. dm., f.o.b. works E lb. .32 - —
Potassium pentaborate, gran., dms., c.l., works ton.219.50 - —
dms., ton lots, ex whse ton.311.00 - —
dms., smaller lots, ex whse ton.316.00 - —
Powdered potassium pentaborate $10 per ton higher.
Potassium perchlorate, dms., c.l., works lb. .18½- —
dms., l.c.l., works lb. .19 - .20
Potassium permanganate, coml., kgs., works lb. .25 - .33
USP, dms., works lb. .29 - .35
Potassium persulfate, dms., c.l., works lb. .17½- —
dms., l.c.l., works lb. .18 - .21
Potassium pyrophosphate, tetrabasic, dms., works lb. .15½- .18¼
Potassium prussiate red (see Potassium ferrocyanide).
Potassium prussiate yellow (see Potassium ferro-cyanide).
Potassium silicate, electrical grade, 30° Be, 1:2.0, dms., c.l., works 100 lbs. 6.50 - —
dms., l.c.l., 5 dm. lots or more, works 100 lbs. 7.25 - 7.65
tanks, works 100 lbs. 6.15 - —
Potassium silicate, electrical grade, 40.5° Be, 1:2.1, dms., c.l., works 100 lbs. 5.95 - —
dms., l.c.l., 5 dm. lots or more, works 100 lbs. 6.70 - —
tanks, works 100 lbs. 5.60 - —
Potassium silicate, glass grade, bgs., c.l., works 100 lbs.17.30 -18.00
bgs., l.c.l., works 100 lbs.17.80 —
Soln., 29° Be, 1:2.5, dms., c.l., works 100 lbs. 4.95 - —
dms., l.c.l., 5-dm. lots or more, works 100 lbs. 5.70 - —
tanks, works 100 lbs. 4.60 - —
Potassium silicofluoride, bgs., works. lb. .09½- .10

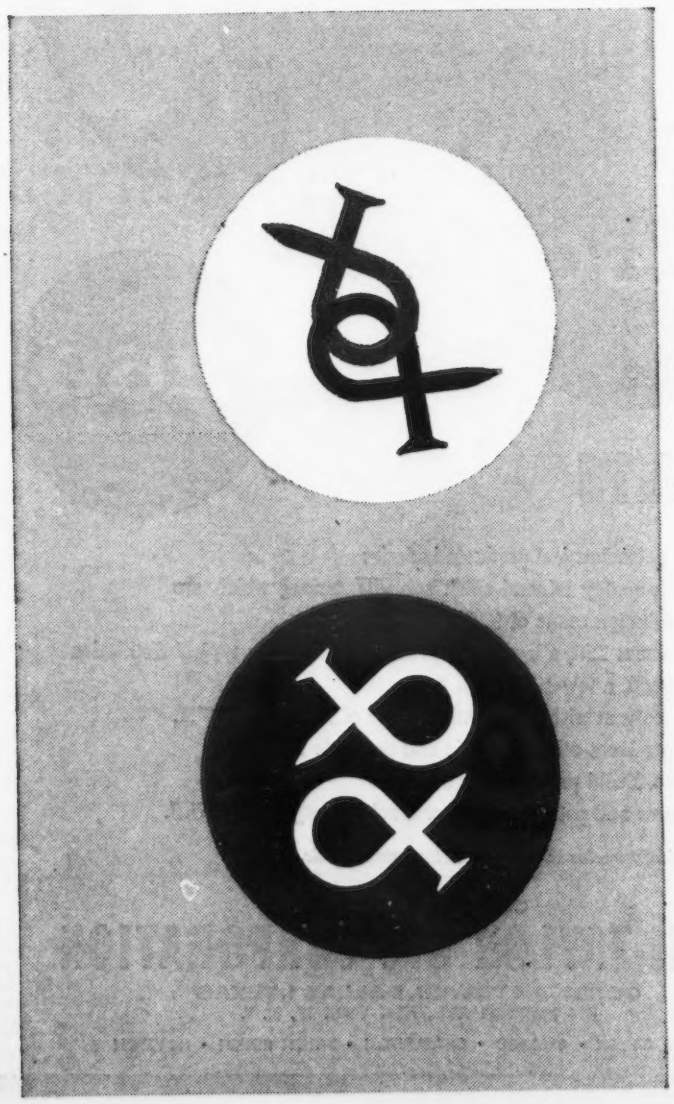
Potassium silicofluoride in drums, 0.4c. per lb. higher.

Potassium stannate, dms., frt. alld E lb. .793 - .866
Potassium sulfate, min. 50% K_2O, agricultural, bulk, c.l., works unit-ton. .67½- .69½

Inside price applies to tonnage contracted for prior to July 1, 1959.

Outside price applies to tonnage contracted for after that date but also for delivery during the current month.

Potassium sulfate, NF VII, cryst., dms., lb. .31 - .33
NF VII, gran., dms lb. .18½- —
NF VII, powd., dms lb. .16 - .17
Potassium sulfocyanate, NF, cryst., (see Potassium thiocyanate).
Potassium thiocyanate, NF, cryst., dms., works lb. .96 - .98
Tech., dms., works lb. .77 - .79
Potassium titanate, ctns., c.l., works. lb. .16¼- —
ctns., 5-ton lots, works lb. .16½- —
ctns., 1-ton lots or less, works lb. .16¾- —
Potassium-magnesium sulfate, basis 40% K_2SO_4 and 18% MgO, bulk, works, base price. ton.13.45 - —
bulk, works, July forward ton.14.00 - —
Potassium-sodium tartrate, NF, gran. or powd., 250-lb. dms., c.l., works E lb.42½- —
250-lb. dms., 5,000-lb. lots, same basis lb. .43 - —
250-lb. dms., same basis lb. .43½- —
Potassium-titanium fluoride, fib. dms., works lb. .39 - .40
Potassium-zirconium flouride, fib. dms., c.l., works lb. .50 - —
fib. dms., l.c.l., works lb. .52½- .55
Pregnenolone, bots. gram. No prices.
Pregnenolone acetate, bots. gram. No prices.



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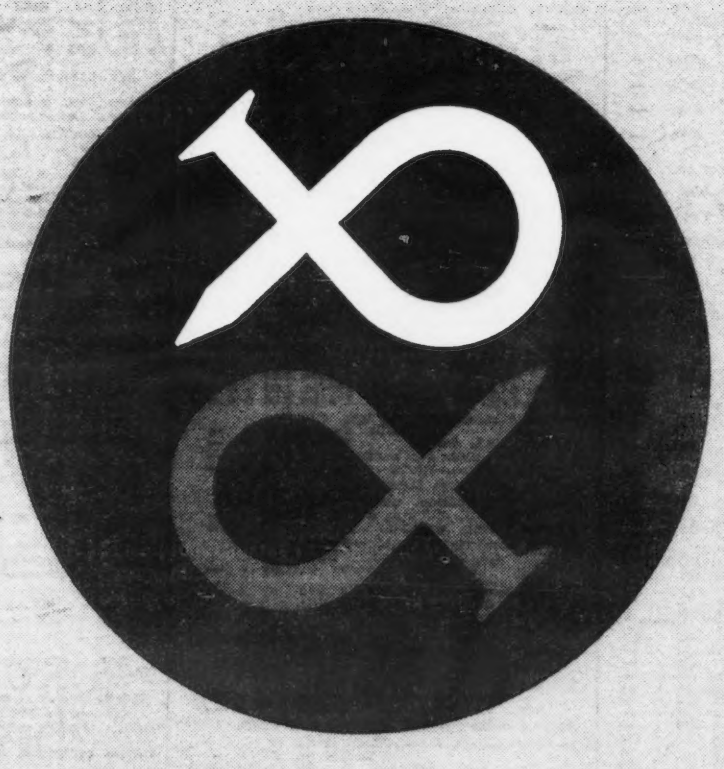

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Procaine hydrochloride, USP, antibiotic grade, dms., 2,000-lb. lots, frt. alld lb. 2.25 • —
USP, ampule grade, dms., 1,000-lb. lots, frt. alld lb. 2.40 • —
dms., 500 lbs lb 2.45 • —
dms., 100 lbs lb. 2.50 • —
Progesterone, USP, bots gram No prices.
Pregnenolone acetate, bots gram No prices.
Propenyl guaethol, dms. lb.24.30 -27.00
b Propriolactone, tech., dms., c.l., f.o.b. works lb. .47½- —
dms., l.c.l., l.t.l., same basis lb. .48½- —
tanks, same basis lb. .45 - —
Propionic acid syn. pure, dms., c.l., works lb. .23¼- —
dms., l.c.l., works lb. .24¾- —
tanks, works lb. .20¾- —
n-Propyl acetate, dms., c.l., dlvd. lb. .14¾- —
dms., l.c.l., dlvd lb. .16¼- —
tanks, dlvd lb. .12¼- —
n-Propyl alcohol, dms., c.l., dlvd lb. .14 - .15
dms., l.c.l., dlvd lb. .15½- .16½
tanks, dlvd. lb. .11½- .12½
n-Propyl gallate, dms., 100 to 2,000-lb. lots, works lb. 3.90 - 4.40
n-Propyl-p-hydroxybenzoate, USP, dms lb. 2.30 - 2.40
Propyl thiouracil, bots., 50 kilo lots or more kilo.55.00 - —
bots., smaller lots kilo.55.10 -55.30
n-Propylamine, dms., c.l., dlvd lb 1.24 • —
dms., l.c.l., same basis lb. 1.255 • —
n-Propylene dichloride, consumers', dms., c.l., dlvd. E lb. .0845- —
dms., l.c.l., same basis lb. .0995- —
tanks, same basis lb. .07 • —

Propylene dichloride prices in West 1c. higher, same basis.

Propylene glycol, indust., dms., c.l., dlvd. E lb. .15 • —
dms., l.c.l., same basis lb. .16¾- —
tanks, same basis lb. .12½- —
USP, dms., c.l., dlvd. E lb. .17 • —
dms., l.c.l., same basis lb. .18¾- —
Propylene glycol methyl ether, dms., c.l., dlvd lb. .20 • —
dms., l.c.l., same basis lb. .21 • —
tanks, same basis lb. .18½- —
Propylene oxide, dms., c.l., dlvd. E lb. .17 • —
dms., l.c.l., dlvd. E lb. .18½- —
tanks, dlvd. E lb. .14½- —
Psyllium seed, black, bgs lb. .30 - .35
Blonde, bgs. lb. .18 - .20
Husks, bgs. lb. .42 - .45
Pumice, dom., grd., coarse to fine, 0, ½, 1, 1½, 2, 3, bgs., ton lots lb. .03⅝- .04¼
bgs., smaller lots lb. .03⅞- —
Imp., Italian, silk-screen, coarse, bgs, ton lots lb. .06⅛- —
fine, bgs., ton lots lb. .04 • —
sun dried, coarse, bgs ton.60.00 • —
fine, bgs. ton.60.00 -70.00
Pumpkin seed, bgs lb. .25 - .26
Pyrethrins, syn. (see Allethrin).
Pyrethrum flowers, fine grd., 0.9% pyrethrins, bgs., ton, works lb. .50 • —
Powd., 1.3% pyrethrins, bgs., ton, works lb. .71 • —
Pyrethrum liquid, 20/1 basis (2 grams pyrethrins per 100cc odorless base), dms., works, gal. 9.60 - 9.80
Pyrethrum liquid, 100/1 basis (10 grams pyrethrine per 100cc odorless base), dms., works gal.45.90 -46.90
Pyrethrum oleoresin, dewaxed, 20%, dms., works lb.11.00 -11.35
purif, 20%, dms., works lb.11.00 -11.35
Pyridine, denat., dms., c.l., works and frt. equald gal. 2.55 • —
dms., l.c.l., same basis gal. 2.70 • —
Refd., 2°, non-ret. dms., c.l., same basis lb. .69½- —
dms., l.c.l., same basis lb. .70 • —
tanks, same basis lb. .65 • —
Pyridoxine hydrochloride, USP, 500-gram bots., dms., f.o.b. works kilo.95.00 -100.00
Pyrites, Canadian, 48-50% S, mines, long-ton. 5.00 - 6.00
Pyrocatechol (see Catechol).
Pyrogallic acid, NF (see Pyrogallol).
Pyrogallic acid, tech., bbls., 100-lbs., f.o.b., works lb. 3.50 • —
Pyrogallol, NF, 100-lb. dms lb. 3.50 • —
Pyroxylin, USP, bots lb. 9.50 • —

Q

Quassia chips lb. .10 • —
Quicksilver (see Mercury metal).
Quince seed, bgs lb. 1.30 - 1.40
Quinidine sulfate, USP, 1,000-oz. dm oz. .74½- —
Quinine, NF, 1,000-oz. dm oz. .3105- —
Quinine bisulfate, USP, 1,000-oz. dm. oz. .2330- —
Quinine hydrochloride, 1,000-oz. dm. oz. .3030- —
Quinine sulfate, USP, 1,000-oz. dm. oz. .2575- —
Quinoline, dms., c.l., frt. equald lb. .50¾- —
dms., l.c.l., same basis lb. .51¼- —
tanks, same basis lb. .50 • —

R

R salt paste, dms., frt. alld., 100% basis lb. .98 • —
Powd., frt. alld, 100% basis lb. 1.08 • —
Rapeseed oil, dms lb. .15 • .15½
tanks lb. .13 • —
Rare earth oxalate, NF, 45-50%, bgs, works lb. 1.15 • —
Rauwolfia serpentina root, powd., bbls., dms lb. 1.00 - 1.20
Red carmine, No. 40 (see Carmine).
Red oil (see Oleic acid).

RED PIGMENTS
Red pigment quotations are listed individually. For example, prices on Red, lithol toner, may be found in the L's under Lithol red toner.

Red precipitate (see Mercuric oxide, red).
Red toner, Lake C, alizanine, bbls., works lb. 1.25 • —
Reserpine, cryst. bots gram 1.25 • —
Resorcinol, tech grade, dms., c.l., works, frt. equald lb. .77¼- —
dms., l.c.l., same basis lb. .78½- —
USP, powd., dms., works lb. 2.95 • —
Resorcinol monoacetate, NF, dms. lb. 2.50 • —
Rhatany root, bgs lb. .14 • .16
Rhodamine red toner, molybdated, PMA, kgs., works lb. 6.00 • —
Tungstated, PTMA, works, kgs lb. 6.60 • —
Rhodinol, 5-lb. cans lb.42.00 -51.00
Synthetic lb.14.00 -16.00
Rhubarb root, India, whole, bgs. lb. .25 • —
powd., bgs. lb. .35 • —
tanks, same basis lb. .14½- —
Riboflavin, USP, fib. dms., kilo or more, dlvd. kilo.36.00 • —
Riboflavin, 5-phosphate-sodium, fib. dms., kilo or more, dlvd. kilo.104.50 • —
Rice bran oil, clarified, dms., l.c.l. lb. .14 - .14½
tanks, dlvd. E lb. .12 Nom.
Ricinoleic acid (see Castor oil acids split).
Rochelle salt (see Potassium-sodium tartrate)
Roofing pitch (see Coaltar pitch roofing).
Rose oil, nat., Bulgarian, bots lb.1,152.00- —
Turkish, bots. lb.560.00 -750.00
Rosemary oil, Spanish, NF, cns., dms lb. .97 - 1.40
Spanish, tech., cns., dms lb. .50 - 1.20
Rosin gum and wood (see Naval Stores in Protective Coatings market).
Rotenone, fib. dms., works unit-lb. .12 • —
Resin, 25-45%, fib. dms., works, unit-lb. .12 • —
Rottenstone, bgs., 5-ton lots, ex-whse lb. .03¾- —
bgs., ton lots, same basis lb. .04¼- —
Rubber solvent, petroleum, 115°F-245°F b.r., tankcars, New Jersey and New York gal. .19 • —
Group 3 gal. .13875- —
Houston, Texas gal. .155 • —
Rue oil, bots lb. 2.75 - 3.00
Rutin, NF, fib. dms., 10 kilo lots, kilo.13.00 • —
fib. dms., 5 kilo lots kilo.13.50 • —
fib. dms., 1 kilo kilo.14.00 • —
Ryania, 100%, powd., bgs., c.l., works lb. .22 • —
bgs., l.c.l., same basis lb. .24 • —

S

S acid, bbls., works lb. 3.25 • —
Sabadilla seed, activated, ground with lime, bbls lb. .42 - .44
Saccharin, calcium, fib. dms., 1,000-lb. lots, works lb. 2.50 • —
USP, gran., soluble, dms., 1,000-lb. lots lb. 1.40 • —
dms., smaller lots lb. 1.50 • —
USP, powd., soluble, insoluble, dms., 1,000-lb. lots lb. 1.45 • —
dms., smaller lots lb. 1.55 • —
Saccharin, USP, powd., insoluble, dms., 1,000-lb. lots lb. 1.43 • —
dms., smaller lots lb. 1.53 • —
Safflower oil, dms., New York lb. .1725- .1750
tanks, Atl. Coast lb. .1525- —
Saffron, Mancha Superior, tins lo.20.00 • —
Safrol, dms. lb. .65 • —
Sage, Dalmatian, bgs lb. .40 • —
Greek, cns. lb. .15 • —
Italian, cns. lb .18 • —
Sage oil, clary, bots lb.15.50 -18.00
Dalmatian, cns. lb. 2.85 - 3.25
Spanish, cns. lb. 1.25 - 1.75
Sal soda (see Soda sal).
Salicylaldehyde, dms., c.l., t.l., f.o.b., plant, frt. equald lb. 1.23 • —
dms., l.c.l., same basis lb. 1.25 • —
Salicylamide, 100-lb. dms lb. 1.03 • —
Salicylic acid, tech., fib. dms., c.l., t.l., dlvd lb. .40½- —
fib. dms., l.c.l., dlvd lb. .44¾- —
Salicylic acid, USP, cryst., 200-lb. fib. dms., 1,000 lbs. or more lb. .51¾- —
200-lb. fib. dms., less than 1,000 lbs lb. .54¾- —
100-lb. fib. dms., 1,000 lbs. or more lb. .53¾- —
100-lb. fib. dms., less than 1,000 lbs lb. .56¾- —
USP, powd., 100-lb. fib. dms., 1,000 lbs. or more lb. .58¾- —
100-lb. fib. dms., less than 1,000 lbs lb. .61¾- —
Salol, NF, gran., bbls., kgs lb. 1.20 • —

Powdered salol, 25c. per lb. higher.

Salt, rock, paper bgs., c.l. 100 lbs. 1.09 • —
Salt, table vacuum, common, fine, paper bgs., c.l 100 lbs. 1.34 • —
Saltcake, dom., bulk, works, 100% Na_2SO_4 basis ton.28.00 • —
Saltpeter (see Potassium nitrate).
Sandalwood, E. Indian, chips, bgs., lb. .55 - .66
powd., fib. dms lb .75 - .76
Sandalwood oil, cns lb.23.00 -25.00
Sarcosine, tech., tanks, f.o.b., works, frt. equald lb. 1.03 • —
lb. No stocks.
Sardine oil, crude, tanks, Pac. coast.
Sassafras oil, artif., dms lb. .45 • —
Nat., dom., dms lb. 1.40 • —
Savory oil, cns lb. 4.75 • —
Schaeffer's salt, paste, dms., frt. alld. 100% basis lb. .85 • —
Powd., bgs., frt. alld., 100% basis lb. .95 • —
Scopolamine hydrobromide, USP, bots oz.13.00 • —
Sebacic acid, CP, bgs., c.l., works, lb. .69½- —
bgs., l.c.l., works lb. .71½- —
Purified, bgs., c.l., works lb. .65½- —
bgs., l.c.l., works lb. .67½- —
Seidlitz mixture, fib. dms., 5,000-lb. lots lb. .30½- —
fib. dms., smaller lots lb. .31 • .32
Selenium, powd. 99½%, dms., dlvd. lb. 7.00 • —
Senega root, bls lb. 3.00 • —
Senna leaves, Alexandria, whole and half, bls lb. .20 • .22
siftings lb. .16 • —
Tinnevelly, No. 1, bls lb. .22 • —
No. 2, bls lb. .18 • —
No. 3, bls lb. .14 • —
pods, bls. lb. .28 • —
powd bbls. bxs lb. .17 • —
Serpentaria root, bls lb. 6.50 • —
Sesame oil, USP, dms lb. .38 • .39
Sesame seed, Colombian, bgs lb. .15½- —
Lebanese, hulled, bgs lb. .19 • —
Nicaraguan, hulled, bgs lb. .24 • —
nat., bgs. lb. .14 • —
Salvadorian, Nat., bgs lb. .16 • —
Shellac, bleached, bonedry, bgs., 1,500-lb. lots lb. .46 • —
dms., l.c.l., works lb. .22 • .30½
bbls., 1,500-lb. lots lb. .47 • —
kgs., 1,500-lb. lots lb. .48 • —

Bonedry shellacs prices for less than 1,500-lb. lots 1c. per lb. higher for all packages.

Shellac, bleached, refd., bgs., 1,500-lb. lots lb. .56 • —
bbls., 1,500-lb. lots lb. .57 • —
kgs., 1,500-lb. lots lb. .58 • —
Shellac, orange, lemon No. 1, bgs., 10-bg. lots lb. .37 - .39
lemon No. 2, bgs., 10-bg. lots lb. .34 - .37
superfine, bgs., 10-bg. lots lb. .32 - .34

Shellac in 1 to 10-bg. lots 1c. per lb. more.

Shingle stain oil, tar distillate, dms., c.l., works gal. .37 • —
dms., l.c.l., works gal. .48 • —
tanks, works gal. .25 • —
Sienna pigment, burnt, paper bgs., c.l., works lb. .06½- .18½
paper bgs., l.c.l., works lb. .06¾- .17¾
Raw, paper bgs., c.l., works lb. .06¾- .16¾
paper bgs., l.c.l., works lb. .07 • .17
Silica, amorph., dry-grd., 325 mesh, bgs., c.l., works ton.25.00 • —
bgs., l.c.l., works, ex whse. ton.45.00 -55.00
Silica, hard-quartz, 99½%, 325 mesh, bgs., c.l., works ton.20.00 • —
bgs., l.c.l., works ton.25.00 • —
99½%, 140 mesh, bgs., c.l., works ton.15.00 • —
bgs., l.c.l., works ton.20.00 • —
Silicon tetrachloride, tech., dms., c.l., works lb. .18 • —
tanks, works lb. .17 • —
Silver bullion, ingots, cs Troy oz. .91⅜- —
Silver cyanide, bots., 1,000-oz. lots, oz. .94¾- —
bots., 500-oz. lots oz. .95¼- —
bots., 100-oz. lots oz. .96¼- —
Silver nitrate, CP, cryst., bots., 1,000 to 4,000 oz., f.o.b. works oz. .67¼- —
bots., 250-500 oz., same basis. oz. 67¾- —

USP granular silver nitrate 4c. per oz. higher.

Silver proteinate, mild, USP, 16-oz. bots oz. 1.46 • —
Snakeroot oil, Canada, cns lb.40.00 -43.00
Soapbark, crushed, bls lb. .30 - .35
Powd., bls. lb. .35 - .40
Whole, bls. lb. .20 - .25
Soda ash, dense, 58%, paper bgs., c.l., works 100 lbs. 1.90 • —
paper bgs., l.c.l., stock pts., 100 lbs. 3.00 - 4.77
bulk, c.l., works 100 lbs. 1.60 • —
Light, 58%, paper bgs., c.l., works 100 lbs. 1.85 • —
paper bgs., l.c.l., stock pts., 100 lbs. 3.95 - 4.72
bulk, c.l., works 100 lbs. 1.55 • —
Soda, caustic, flake, 76%, dms., c.l., works, frt. equald 100 lbs. 5.20 • —
liq., 50%, sellers' tanks, works, dry basis 100 lbs. 2.90 • —
50%, rayon type, sellers' tanks, works, dry basis 100 lbs. 2.90 - 3.00
Soda, caustic, liq, 73%, sellers' tanks, works, dry basis, 100 lbs. 3.00 • —
liq., 73%, rayon type, sellers' tanks, works, dry basis lb. 3.00 - 3.10
solid, 76%, dms., c.l., works, 100 lbs 4.80 • —
Soda, sal, conc., bgs., c.l., works, 100 lbs. 2.50 • —
bgs., smaller lots, works 100 lbs. 2.80 • —
Sodium acetate, anhyd., bgs., c.l., dlvd. E lb. .14½- —
NF, 60%, gran., dms., c.l., works, lb. .15½- —
dms., l.c.l., works lb. .17½- —
Sodium alginate, NF, white powd., dom., 300 lbs. or more lb. 1.02 • —
Sodium p-aminosalicylate, dms., 100-lb. lots or more, frt. adjusted lb. 1.90 • —
Sodium antimonlate, bgs., c.l., dlvd. E lb. .27½- —
bgs., l.c.l., dlvd. E lb. .29 • —
Sodium arsenate, 60% arsenic pentoxide, 200 lb. dm., less than ton lots, f.o.b. works lb. .24 • —
ton lots or more, same basis, lb. .23½- —
Sodium arsenite, 90% pink powder, 75% arsenious oxide, leaders, dms., ton lots or more, works lb. .17½- —
dms., less than ton lots, works lb. .18 • .19
Sodium ascorbate, dms., 25-50 kilo dms., f.o.b. works kilo.10.00 • —
10-kilo dm., same basis kilo.10.35 • —
5-kilo dm., same basis kilo.10.75 • —
1-kilo bot., same basis kilo.11.00 • —
Sodium benzoate, tech., dms., c.l., t.l., frt. alld lb. .35 • —
dms., l.c.l., same basis lb. .39 • —
USP, dms., c.l., t.l., frt. alld lb. .38 • —
dms., ton lots, same basis lb. .43 • —
dms., 1,000-lb. lots, same basis, lb. .45 • —
Sodium bicarbonate, USP, gran., bgs., c.l., works 100 lbs. 2.95 • —
bgs., l.c.l., works 100 lbs. 3.85 • —
USP, powd., bgs., c.l., works, 100 lbs. 2.55 • —
bgs., l.c.l., works 100 lbs. 3.45 • —
Sodium bichromate, gran., ogs., c.l., t.l., works lb. .13 • —
bgs., l.c.l., works lb. .13½- .14¼

Sodium bichromate in dms. ⅜c. per lb. higher.

Sodium bifluoride, bbls., c.l., works, frt. equald lb. .19½- —
bbls., l.c.l., same basis lb. .2025- —
Sodium bisulfate, bulk, c.l., works, 100 lbs. 2.00 • —
dms., c.l., frt. equald 100 lbs. 3.00 - 3.60
dms., l.c.l., frt. equald 100 lbs. 3.50 - 4.10
Sodium bisulfite, anhyd., bgs., c.l., works 100 lbs. 5.00 • —
bgs., l.c.l., works 100 lbs. 5.45 • —
Soln., 35°, bbls., c.l., works 100 lbs. 1.70 • —
bbls., l.c.l., works 100 lbs. 2.20 • —
Sodium borate (see Borax).
Sodium borohydride, powd., dms., c.l., works lb.19.90 • —
dms., l.c.l., works lb.33.00 -40.00
Sodium borohydride, stabilized water soln., 12% NaBH, 100% basis, dms., works lb.15.00 • —

Pelletized sodium borohydride $1 per lb. higher in 1,000-lb. lots.

Sodium bromide, USP, gran., dms., works lb. .40 • —
Sodium carbonate, cryst., monohydrated (see Soda, sal).
Sodium carbonate, monohydrated, bgs., c.l., works 100 lbs. 3.10 • —
bgs., l.c.l., works 100 lbs. 3.50 • —
Sodium carboxymethyl cellulose (see CMC).
Sodium chlorate, cryst., 350-lb. dms., c.l., works lb. .09 • —
dms., l.c.l., works lb. .09½- .10½
Sodium chlorate in 100-lb. dms., only, ¼c. per lb. higher.
Sodium chloride, tech. (see Salt).
Sodium chloride, USP, gran., bgs, lb. .05 • —
Sodium chlorite, tech., dms., c.l., works lb. .58 • —
dms., 20-dm. lots or more, works, lb. .66 • —
dms., smaller lots, works lb. .70 • .73
Sodium chloroacetate, tech., dms., c.l., works lb. .27 • —
dms., l.c.l., works lb. .28 • —
Sodium chromate, anhyd., fib. dms., c.l., t.l., works lb. .14¾- —
fib. dms., l.c.l., works lb. .15¼- .16½
Sodium chromate tetrahydrate, bgs., c.l., t.l., works lb. .1015- —
bgs., l.c.l. lb. .1065- .1190
Sodium citrate, anhyd., 200-lb. dm., f.o.b works E lb. .62 • —
NF VIII, gran, bgs., c.l., same basis lb. .26 • —
USP XIV, gran., bgs., c.l., same basis lb. .29 • —

Sodium citrate, USP, powd. prices ½c. higher.

Sodium cyanate, dms., 1,000-lb. lots, works lb. .85 • —
dms., smaller lots, works lb. .90 • 1.10
Sodium cyanide, briquettes or gran., 97 percent min., dms., works, 20,000-lb. lots lb. .176 • —
dms., same basis, 5,000 to 19,999-lb. lots lb. .188 • —
dms., same basis, 1,000 to 4,900-lb. lots lb. .198 • —
Sodium cyclamate, 100-lb. dm., f.o.b. works lb. 1.95 • —
Sodium diacetate, anhyd., 39-41% acetic acid, dms., c.l., works lb. .18 • —
250-lb. dms., l.c.l., works lb. .16¾- —
Tech., 33-35% acetic acid, dms., l.c.l., works lb. .15 • —
250-lb. dms., l.c.l., works lb. .15¾- —
Sodium dimethyl dithiocarbamate, 40% soln., dms., c.l., t.l., frt. alld., 100% basis lb. .42 • —
dms., l.c.l., l.t.l., same basis lb. .47 • .52
tanks, same basis lb. .38 • —
Sodium ferrocyanide, bgs., 10-ton lots lb. .13½- —
bgs., smaller lots lb. .14¼- —
Sodium fluoride, white, 97%, fib. dms., c.l., works, frt. equald lb. .1390- —
fib. dms., l.c.l., works, frt. equald lb. .1465- —
Sodium formate, bgs., c.l., works, 100 lbs. 7.05 • —
bgs., l.c.l., ex whse 100 lbs. 8.65 • —
Sodium gentisate, 100-lb. fib. dms. lb. 5.50 • —
Sodium gluconate, refd., 250-lb. dm., f.o.b. works E lb. .64 • —
Tech., bgs., c.l., t.l., same basis lb. .34 • —
Sodium hydride, 50% soln. in oil, dms., works lb. 1.25 - 2.50
25% soln. in oil, dms., 50 lbs. or less, f.o.b. shipping point, lb. 2.20 • —
dms., 50-99 lbs., same basis lb. 1.77 • —
dms., 100-999 lbs., same basis lb. 1.20 • —
dms., 1,000 lbs or more, same basis lb. .95 • —
Sodium hydrosulfide (see Sodium sulfhydrate).
Sodium hydrosulfite, dms., c.l., frt. alld lb. 23½- —
dms., l.c.l. frt alld. lb. 25¼- —
Sodium hydroxide, NF, pellets, 100-lb. dms., 1 to 100-dm. lots, lb. .23½- .28
Sodium hydroxide, tech. (see Soda, caustic).
Sodium hypophosphite, NF, dms., 1,000-lb. lots lb. .99 • —
Sodium hyposulfite (see Sodium thiosulfate).
Sodium iodide, USP, 300-lb. dms., f.o.b. work lb. 1.98 • —
Sodium lauryl sulfate, dms., c.l., dlvd lb. .20½- —
dms., l.t.l., dlvd. lb. .21½- —
tanks, dlvd. lb. .19½- —
Sodium lignin sulfonate, bgs., c.l., works 100 lbs. 4.25 - 6.50
t.c.l., bgs., works 100 lbs. 4.40 - 7.00
Sodium metabisulfite (see Sodium bisulfite).
Sodium metaborate octahydrate, gran., bgs., c.l., works ton.210.00 • —
bgs., ton lots, ex whse 100 lbs. 8.00 • —
bgs., smaller lots, ex whse. 100 lbs. 9.25 -11.25
Tetrahydrate, bgs., c.l., works, ton.210.00 • —
bgs., ton lots, ex whse 100 lbs.13.93 • —
bgs., smaller lots, ex whse. 100 lbs.15.18 -17.18
Sodium, metallic, bricks, c.l., works, lb. .21 • —
Fused, 18,000-lb. lots or more, works lb. .19½- —
tanks, works lb. .17 • —
Sodium metalinate, bbls., frt. alld. lb. .62 • —
Sodium metaphosphate, bgs., c.l., f.o.b. shipping pt. 100 lbs.11.10 • —
bgs., l.c.l., same basis 100 lbs.11.85 • —
dms., c.l., same basis 100 lbs.11.70 • —
dms., l.c.l., same basis 100 lbs.12.45 • —
Sodium metasilicate, anhyd., bgs., c.l., works 100 lbs. 5.70 • —
bgs., 6,000-19,900 lb. lots, works, 100 lbs. 6.05 • —
dms., c.l., works 100 lbs. 6.20 • —
dms., l.c.l., works 100 lbs. 6.55 • —
Sodium metasilicate pentahydrate, bgs., c.l., works 100 lbs. 4.45 • —
bgs., l.c.l., works 100 lbs. 4.80 - 6.75
dms., l.c.l., works 100 lbs. 4.95 • —
dms., l.c.l., works 100 lbs. 5.30 - 7.25
Sodium molybdate, anhyd., dms., works, frt. equald lb. .92 - .99
Cryst., dms., works, frt. alld lb. .74 - .76
Sodium monoglutamate (see Monosodium glutamate).
Sodium monohydrate (see Sodium carbonate, monohydrated).
Sodium naphthionate, bbls. lb. .72 • —
Sodium nitrate, dom., crude, bgs., c.l., works ton.48.00 • —
bulk, c.l., works ton.44.00 • —
Imp., crude, 100-lb. bgs., c.l., Atl., Gulf, Pac., whse ton.48.00 • —
bulk, c.l., same basis ton.44.00 • —
Sodium nitrite, USP, bbls., c.l., works, frt. equald 100 lbs. 9.00 • —
bbls., l.c.l., same basis 100 lbs.11.00 • —
Sodium orthosilicate, conc., dms., c.l., works 100 lbs. 6.70 • —
dms., l.c.l., works 100 lbs. 7.05 - 7.65
Hydrated, flake, bbls., c.l., works, 100 lbs. 5.65 • —
bbls., l.c.l., works 100 lbs. 7.60 - 7.90
Sodium oxalate, 88%, bgs., works, 100 lbs.12.35 • —
99%, bgs., works 100 lbs.15.40 • —
Sodium para-aminobenzoate (see Sodium p-aminobenzoate).
Sodium para-aminosalicylate (see Sodium p-aminosalicylate).
Sodium pentachlorophenate, briquets, dms., c.l., works, frt. equald lb. .26 • —
dms., l.c.l., same basis lb. .27½- .34
Pellets, dms., c.l., same basis lb. .26 • —
dms., c.l., same basis lb. .27½- .34
Powd., dms., c.l., same basis lb. .25 • —
dms., l.c.l., same basis lb. .26½- .33
Sodium pentabarbital, USP, dms., 100 lbs. or more lb. 6.00 • —
Sodium perborate, NF, tech., bgs., c.l., works lb. .18½- —
bgs., l.c.l., works lb. .19 • .21
Sodium peroxide, dms., c.l., t.l., dlvd. E. of Miss. lb. .21½- —
dms., l.c.l., same basis lb. .22 • .22½
Sodium phenobarbital, USP, 100-lb. dms. lb. 3.75 • —
Sodium phenosulfonate, USP, IX, gran., dms. lb. .52 • .53
NF, powd., dms. lb. .55 • .56
Sodium phosphate, dibasic, anhyd., bgs., c.l., frt. equald 100 lbs. 7.95 • —
bgs., l.c.l., same basis 100 lbs. 8.35 - 9.40
Dibasic, cryst., bgs., c.l., t.l., frt. equald 100 lbs. 4.60 • —
bgs., l.c.l., frt. equald 100 lbs. 5.00 - 5.75
Dibasic, duohydrate, bgs., c.l., frt. equald 100 lbs. 7.60 • —
bgs., l.c.l., same basis 100 lbs. 8.10 • —
Sodium phosphate, USP, dried, powd., bgs., dms., works lb. .19 • .20½
Monobasic, anhyd., bgs., c.l., frt. equald 100 lbs. 9.00 • —
bgs., l.c.l., same basis 100 lbs. 9.40 -10.00
Tribasic, anhyd., bgs., c.l., frt. equald 100 lbs. 9.00 • —
bgs., l.c.l., frt. equald 100 lbs. 9.45 -10.05

Sodium phosphate in dms. 60c. to 80c. higher than bgs.

Sodium picramate, tech., paste, dms., f.o.b. works, frt. equald.	lb.	.90 - —
Sodium propionate, any quantity, dms., dlvd. E. of Rockies.	lb.	.34½- —
Prices W. of Rockies 3c. per lb. more.		
Sodium prussiate, yellow (see Sodium ferrocyanide).		
Sodium pyrophosphate acid, bgs., c.l., works, frt. equald. 100 lbs.		11.10 - —
bgs., l.c.l., same basis	100 lbs.	11.85 12.35
Sodium pyrophosphate, ferric, dms., c.l., t.l., works	lb.	.36 - —
dms., l.c.l., works	lb.	.37 - .39
Tetrabasic, anhyd., bgs., c.l., works, frt. equald.	100 lbs.	7.81 - —
bgs., l.c.l. same basis	100 lbs.	9.21 - 9.71
Sodium salicylate, USP, dms., 1,000-lbs. or more	lb.	.78½- —
dms., less than 1,000 lbs., dms.	lb.	.81½- —
Sodium sesquicarbonate, bgs., c.l., works	100 lbs.	2.35 - —
Sodium sesquicarbonate, bgs., l.c.l., dlvd. zone 1	100 lbs.	4.10 - 4.35
dlvd. zone 2	100 lbs.	4.35 - 4.60
dlvd. zone 3	100 lbs.	4.75 - 4.90
dlvd. zone 4	100 lbs.	5.35 - 5.60
Sales zones are (1) Atl. states E. of Miss., R and N of south bound of Ky. and Va., Ala., La., and Miss., south of 31°; Tex. E. of 100°; S. of 31° Fla.; also Me., N. H. and Vt. in which there are special county zones; Davenport, Ia., and St. Louis; (2) Ark. E. of 98° Ga.; Iowa (except Davenport) Minn., Mo. (except St. Louis) Neb. E. of 98° N. C., S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No. of 31°; (3) Ark. W. of 96°, Kan., Neb. W. of 93° N. D., Okla., S. D., Tex., W. of 100° (including Wichita Falls, excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo. and El Paso, Tex.		
Sodium sesquisilicate, anhyd., bgs., c.l., t.l., works	100 lbs.	5.70 - —
dms., c.l., t.l., works	100 lbs.	6.20 - —
Sodium sesquisilicate, hydrated, bgs., c.l., works	100 lbs.	5.00 - —
bgs., 6,000-19,900 lb. lots, works	100 lbs.	5.35 - —
dms., c.l., works	100 lbs.	5.50 - —
dms., 6,000-19,900 lb. lots, works,	100 lbs.	5.85 - —
Sodium silicate, liq., 40° Be., 1:3.2, turbid, dms., c.l., works,	100 lbs.	1.65 - —
dms., l.c.l., works	100 lbs.	1.90 - 2.40
tanks, works	100 lbs.	1.20 - —
47° Be., 1:29.9, turbid, dms., c.l., works	100 lbs.	2.25 - —
dms., l.c.l., works	100 lbs.	2.60 - 3.45
tanks, works	100 lbs.	1.90 - —
52° Be, 1:2.4, turbid, dms., c.l., works	100 lbs.	2.65 - —
dms., l.c.l., works	100 lbs.	3.00 - 3.50
tanks, works	100 lbs.	2.30 - —
Solid, 1.3.2, bgs., works	ton.	67.50 - —
Sodium silicofluoride, bgs., c.l., works	lb.	.065 - —
bgs., l.c.l., works	lb.	.725- —
Sodium silicofluoride in dms., 0.4c. per lb. higher.		
Sodium stannate, dms., works, frt. alld. E.	lb.	.652 - .712
Sodium sulfa drugs (see Sulfa name).		
Sodium sulfanilate, bbls., works	lb.	.22 - —
Sodium sulfate, NF VII, dried, powd., dms	lb.	.22½- —
Tech., anhyd., bgs., c.l., dlvd. E.	ton.	54.00 - —
Tech., detergent, rayon grade, bgs., c.l., works	ton.	36.00 - —
bulk, c.l., works	ton.	32.00 - —
USP, cryst., fib. dms.	lb.	.17½- .18
Sodium sulfhydrate, flake, 70-72%, dms., c.l., works, frt. equald.	lb.	.07¼- —
dms., l.c.l., same basis	lb.	.08¼- —
Liq., 40-44%, tanks, works, 100% basis	ton.	130.00 - —
Sodium sulfide, flake, dms., c.l., works, E., frt. equald.	lb.	.06 - —
dms., l.c.l., same basis	lb.	.07 - —
Fused, bbls., c.l., works, E., frt. equald.	lb.	.05½- —
bbls., l.c.l., same basis	lb.	.06½- —
Sodium sulfite, anhyd., powd., bgs., c.l., works	100 lbs.	7.55 - —
bgs., l.c.l., same basis	100 lbs.	7.95 - —
Anhyd., tech., bgs., c.l., works.	100 lbs.	3.50 - —
bgs., t.l., same basis	100 lbs.	4.00 - —
Sodium sulfocyanide, CP (see Sodium thiocyanate).		
Sodium tetraborate (see Borax).		
Sodium tetrasulfide, liq., 40%, dms., c.l., works, frt. equald.	lb.	.04½- —
dms., l.c.l., same basis	lb.	.05½- —
Sodium thiocyanate, CP, dms.	lb.	.55 - .65
Tech., anhyd., dms., 1 ton lots or more, works	lb.	.317 - —
dms., less than ton lots, works	lb.	.337 - —
Sodium thiosulfate, NF, cryst., bbls.	lb.	.13½- —
Tech., anhyd., 100-lb. bgs., c.l., t.l., frt. equald.	100 lbs.	7.75 - —
100-lb. bgs., l.c.l., l.t.l., frt. equald.	100 lbs.	8.15 - —
Sodium thiosulfate, tech., anhyd., photo grade, 64-lb. bgs., c.l., t.l., frt. equald.	lb.	.0775- —
64-lb. bgs., l.c.l., l.t.l., frt. equald.	lb.	.0815- —
Tech., pentahydrate, photo grade, 100-lb. bgs., c.l., t.l., frt. equald.	100 lbs.	4.95 - —
Sodium thiosulfate, tech., pentahydrate, photo grade, 100-lb. bgs., l.c.l., l.t.l., frt. equald.	100 lbs.	5.20 - —
Sodium titanate, ctns., c.l., works.	lb.	.14¼- —
ctns., 5-ton lots, works	lb.	.14½- —
ctns., 1-ton lots or less, works	lb.	.14¾- —
Sodium trichloroacetate, 90%, 100-lb. dms., c.l., frt. alld. E.	lb.	.35 - —
50-lb. dms., c.l., frt. alld. E.	lb.	.35½- —
10-lb. cns., c.l., frt. alld. E.	lb.	.42 - —
Prices on Sodium trichloroacetate W. of the Rockies are 1¾c. per pound higher.		
Sodium tripolyphosphate, bgs., c.l., works, frt. equald.	100 lbs.	8.16 - —
bgs., l.c.l., same basis	100 lbs.	8.56 - 9.06
Sodium trisilicate, powd., 1:3.2, bgs., c.l., works	100 lbs.	8.95 - —
bgs., l.c.l., works	100 lbs.	9.70 -13.13
dms., c.l., works	100 lbs.	9.45 - —
dms., l.c.l., works	100 lbs.	10.20 -10.60
Sodium tungstate, tech., kgs., dlvd. E.	lb.	1.32 - —
Sodium-ammonium phosphate, purif., cryst., dms., works	lb.	.52 - —
Sodium-carboxymethyl cellulose (see CMC).		
Sodium-cinchophen (see Cinchophen-sodium).		
Sodium - formaldehyde sulfoxylate, dms., c.l., dlvd.	lb.	.21 - —
dms., l.c.l., same basis	lb.	.21½- —
Sodium-zirconyl sulfate, fib. dms., 1,000-lb. lots or more works	lb.	.28 - —
fib. dms., smaller lots, same basis	lb.	.30 - —
Solvent naphtha, coaltar, high-flash, tanks, frt. equald.	gal.	.30 - .35¼
Solvent naphtha, petroleum, straight aromatic, 310°-360°F. b.r., 14°-16°C. m.a.p., tankcars, New Jersey and New York	gal.	.29 - —
Houston, Texas	gal.	.29 - —
355°-420°F. b.r., 17°-18°C. m.a.p., tankcars, New Jersey and New York.	gal.	.30 - —
Houston, Texas	gal.	.30 - —
Solvent naphtha, petroleum, partial aromatic, 211°-265°F. b.r., 31°C. m.a.p., tankcars, New Jersey and New York	gal.	.235 - —
286°-340°F. b.r., 22°C. m.a.p., tankcars, New Jersey and New York	gal.	.275 - —
319°-380°F. b.r., 27°C. m.a.p., tankcars, New Jersey and New York	gal.	.27 - —
322°-395°F. b.r., 28°C. m.a.p., tankcars, New Jersey and New York	gal.	.28 - —
Sorbitan monostearate, fib. dms., 20,000-lb. lots, works	lb.	.33½- —
fib. dms., 10,000 to 20,000-lb. lots, works	lb.	.35½- —
fib. dms., smaller lots, works	lb.	.38½- .40½
Sorbitan tristearate, fib. dms., 20,000-lb. lots, works	lb.	.34 - —
fib. dms., 10,000 to 20,000-lb. lots, works	lb.	.36 - —
fib. dms., smaller lots, works	lb.	.39 - .41
Sorbitol, NF, reg., 70% aqueous, dms., c.l., works	lb.	.18 - —
dms., l.c.l., works	lb.	.19 - —
tanks, works	lb.	.16¼- —
cryst., resin grade, pellets, dms., c.l., works	lb.	.23 - —
dms., 1 to 5-ton lots, works	lb.	.25 - .26
powd., dms., c.l., works	lb.	.38½- —
dms., 10,000 to 20,000 lb. lots, works	lb.	.40½- —
Sorbitol, soln., comyl., aqueous, dms., c.l., works	lb.	.26 - —
dms., l.c.l., works	lb.	.27 - —
Soya protein, chemically isolated, old process, bgs., c.l., works.	lb.	.23 - —
bgs., l.c.l., works	lb.	.23¼- .23½
Chemically isolated, new process, bgs., c.l., works	lb.	.20 - —
bgs., l.c.l., works	lb.	.20¼- .29½
Soybean meal, 44%, bulk, unrestricted, Decatur	ton.	50.00 - —
Soybean oil, crude, tanks, Decatur.	lb.	.09⅛- —
Foots, soapstock, acid 95%, tanks.	lb.	.05 - —
Refd., alkali, dms.	lb.	.1343- .1365
tanks	lb.	.1143- —
Clarified, dms.	lb.	.1293- .1315
tanks	lb.	.1093- —
Salad, dms.	lb.	.13⅛- .13¼
tanks	lb.	.11⅛- —
Soybean oil acids, dbl. dist., dms.,	lb.	.17 - .19½
tanks	lb.	.14½- —
S. D., dms.	lb.	.15¾- .18¼
tanks	lb.	.13¼- —
Sparteine sulfate, cns., 100 oz. or more	oz.	.80 - —
Spearmint leaves, dom., bis.	lb.	.75 - —
Spearmint oil, NF, dms.	lb.	4.75 - 5.50
Sperm oil, bleached, winter, 45°, dms.	lb.	.1675- .1775
tanks	lb.	.1475- —
Nat., winter, 45°, dms.	lb.	.1575- .1675
tanks	lb.	.1375- —
Spermaceti wax, blocks, cs.	lb.	.32 - .33
Cakes, cs.	lb.	.33 - .34
Spruce oil, cns., dms.	lb.	2.10 - 3.55
Squill, white, bls.	lb.	.16 - .18
Powd., bbls., bxs.	lb.	.17 - .20
St. John's bread, edible, bls.	lb.	.17 - —
Stannic chloride, anhyd., dms., works	lb.	.822 - .844
Stannic oxide, dms., dlvd.	lb.	1.11 - 1.12
Stannous chloride, anhyd., dms., works	lb.	1.02 - 1.270
Hydrous, cryst., dms., works	lb.	.88 - .89
Stannous sulfate, dms., works	lb.	1.073 - 1.093
Star root (see Helonias root).		
Stargrass root (see Aletris root.)		
Stavesacre seed, bgs.	lb.	.60 - .61
Stearic acid, dbl., pressed bgs.	lb.	.15¾- .18¼
Single-pressed, bgs.	lb.	.15¼- .17¾
Triple-pressed, bgs.	lb.	.17½- .20
Stearine, oleo (see Oleostearine.)		
Stoddard solvent, petroleum, tanks, east coast, New Jersey, New York	gal.	.18 - —
tanks, Houston	gal.	.1475- —
tanks, group 3	gal.	.12875- —
Stramonium leaves, bgs.	lb.	.13 - —
Streptomycin sulfate, bulk, gram.		.035 - .036
Strontium bromide, NF, cryst., 100-lb. dm., f.o.b. E	lb.	.92 - —
Strontium carbonate, pure, dms., 5-ton lots or more, works	lb.	.35 - —
dms., 1-ton lots, works	lb.	.37 - —
Tech., dms., works	lb.	.19 - —
Strontium chromate, fib. dms., dlvd.	lb.	.48 - —
Strontium iodide, jars, 25-lb. lots	lb.	3.57 - —
Strontium nitrate, bgs., c.l., works.	100 lbs.	11.00 - —
bgs., l.c.l., works	100 lbs.	12.00 - —

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Strontium salicylate, NF, dms....lb. 1.88 - —
Strontium sulfate, air floated, 90%, 325 mesh, bgs., works. ton.56.70 -66.15
Strophanthin G (see Quabain, USP).
Strophanthin K bots. ..... oz.25.00 -25.50
Strophanthus seed, Kombi, biologically tested, bgs lb. 3.50 - 3.75
Styrax gum, USP, cs. ..... lb. 4.50 - 5.50
Styrene monomer, polymer grade, 99.6%, dms., c.l., frt. alld. lb. .17 - —
dms., l.c.l., same basis.....lb. .19 - —
tanks, same basis .....lb. .14½- —
Styrene monomer, tech., 99.2%, dms., c.l....lb. .1504- —
dms., l.c.l., same basis.....lb. .1704- —
tanks .....lb. .1254- —

Above prices are escalated for each calendar quarter on the basis of cost of benzene and petroleum refining labor.

Styrolyl acetate, bots. .....lb. 1.10 - —
Succinic acid, purif., cryst., dms., t.l., frt. alld lb. .62 - —
dms., l.t.l., same basis .....lb. .63 - .75
Succinic anhydride, dms., c.l., t.l., dlvd lb. .51 - —
dms., l.c.l., same basis.....lb. .52 - —
Sucrose, refd., white, bgs., refy E. lb. .0970- —
Sucrose acetate, isobutyrate, 90%, dms., t.l., dlvd lb. .33½- —
dms., l.t.l., same basis.....lb. .35 - —
tanks, same basis .....lb. .31 - —
100%, t.l., dms., dlvd. .....lb. .35½- —
l.t.l., dms., same basis.....lb. .37 - —
Sucrose octa-acetate, denaturing grade, 100-200-lb. lots, bgs., l.c.l., works lb. 1.00 - —
Sugar (see Sucrose).
Sugar cane, wax, dom., refd., slabs, 50-lb. ctns., works lb. .60 - .65
50-lb. ctns., spot..... lb. .65 - .75
Sulfabenzamide, dms. ..... kilo. 8.80 - 9.90
Sulfabenzamide-sodium, dms. kilo. 9.00 -10.10
Sulfacetamide, USP, fib. dms kilo. 6.61 - 6.83
Sulfacetamide-sodium, USP, fib. dms kilo. 8.15 - 9.25
Sulfadiazine, USP, microcrystals, dms kilo.23.35 -24.45
USP, powd., dms. ..... kilo.22.60 -23.70
Sulfadiazine-sodium, USP, dms kilo.24.80 -25.90
Sulfaguanidine, NF X, dms .. kilo. 5.50 - 6.60
Sulfamerazine-sodium, USP, powd., dms kilo.24.80 25.90
Sulfamethazine, USP XV, microcrystals, dms kilo.19.65 -20.75
USP XV, powd., dms. .... kilo.18.75 -19.85
Sulfamic acid, cryst., dms., c.l., t.l., works 100 lbs.16.00 —
dms., l.c.l., l.t.l., works 100 lbs.17.50 18.50
Gran., dms., c.l., t.l., works, 100 lbs.14.75 . —
dms., l.c.l., l.t.l., works 100 lbs.16.25 -17.25
Sulfanilamide, NF, reg., 1,000 lb., frt. equald lb. 1.50 - —
NF, fib. dm., frt. equald ..... lb. 1.55 - —
Sulfanilamide quinoxaline, veterinary, dms kilo.16.28 - —
Sulfanilic acid, tech., dms., c.l., frt. alld lb. .21 - —
dms., l.c.l., frt. alld ..... lb. .23 - —
Sulfapyridine, USP XV, powd., bots., tins kilo.15.45 -16.55
Sulfapyridine-sodium, monohydrate, dms kilo.16.55 -17.65
Sulfathiazole, NF X, microcrystals, dms kilo. 6.25 - 6.90
NF X, powd., dms. .....kilo. 5.50 - 6.15
Sulfathiazole-sodium, NF X, dms., 1,000-lb. lots or more lb. 2.35 - —
Sulfur, coml., flour, bgs., mines, 100 lbs. 2.35 - —
bbls., mines .....100 lbs. 3.30 - —
lump, bgs., mines .....100 lbs. 2.25 - —
bbls., mines .....100 lbs. 2.80 - —
Sulfur, crude, dom., bright, bulk, f.o.b. cars, mines long-ton.23.50 - —
export, f.o.b. vessels, Gulf ports, long-ton.25.00 - —
US and Canada, f.o.b. vessels Gulf ports..long-ton.25.00 - —

Domestic dark sulfur prices are $1 per long-ton lower.

Sulfur, crude, imp., Mexican, bulk, filtered, f.o.b., vessel, Coatzacoalcos..long-ton.24.00 - —

Mexican dark sulfur price is $1 per long-ton lower.

Sulfur, refd., flowers, NF, bgs., mines..100 lbs. 5.65 - —
bbls., mines .....100 lbs. 7.00 - —
flour, light, bgs., mines.100 lbs. 5.25 - —
bbls., mines .....100 lbs. 6.25 - —
lump, bgs., mines .....100 lbs. 4.95 - —
rolls, bgs., mines .....100 lbs. 5.50 - —
bbls., mines .....100 lbs. 6.25 - —
salt block, bgs., mines..100 lbs. 4.65 - —
virgin block, bbls., mines 100 lbs. 4.70 - —
Sulfur, rubbermakers, coml., reg., bgs., mines .100 lbs. 2.45 - —
bbls., mines .....100 lbs. 3.70 - —
98-100%, passing through 325 mesh, bgs., mines..100 lbs. 2.55 - —
bbls., mines .....100 lbs. 3.80 - —
refd., bgs., mines .....100 lbs. 4.90 - —
bbls., mines .....100 lbs. 6.05 - —
treated, 2.5% mineral oil, bgs., mines..100 lbs. 2.75 - —
bbls., mines ..... 100 lbs. 4.00 - —
Sulfur dichloride, ret. dms., c.l., works, frt. equald. lb. .05¼- —
ret. dms., l.c.l., same basis....lb. .06¼- —
tanks, same basis .....lb. .04½- —
Sulfur dioxide, liq., coml., cyls., works, frt. equald. lb. .10 - .12
multi-unit cars, works....lb. .0535- —
tanks, works ..... lb. .045 - —
Sulfur dioxide, refrigeration, cyls., dlvd. lb. .33 - —
Sulfur monochloride, 55-gal. non-ret. dms., c.l., frt. equald. lb. .05¼- —
dms., l.c.l., same basis .....lb. .06¼- —
tanks, same basis .....lb. .04½- —
Sulfuric acid, 60° Be, cbys., c.l., works..100 lbs. 2.00 - —
cbys., l.c.l., works .....100 lbs. 2.30 - —
tanks, works ..... ton.18.60 - —
66° Be, cbys., c.l., works..100 lbs. 2.25 - —
cbys., l.c.l., works .....100 lbs. 2.55 - 3.35
tanks, works ..... ton.22.35 - —
98%, tanks, works ..... ton.23.50 - —
99%, tanks, works ..... ton.23.70 - —
100%, tanks, works ..... ton.23.95 - —
CP, NF, consumers' cbys., c.l., frt. equald..lb. .12¾- —
Sulfuric acid, CP, NF, consumers', cbys., l.c.l., same basis, lb. .14¼- .14¾
5-pt. bots., extra, cs., c.l., works, frt. alld..lb. .16¼- —
5-pt. bots., extra, cs., l.c.l., same basis..lb. .17¾- .18¼
Sulfuric acid, fuming (oleum), 20%, tanks, works..ton.25.00 - —
40%, tanks, works .....ton.29.00 - —
65%, tanks works .....ton.39.50 - —

Superphosphate, run-of-pile under 22% a.p.a., pulv., bulk, c.l., Baltimore unit-ton. .90 - .93
bulk, c.l., Carteret, N. J. unit-ton. .90 - .93
bulk, f.o.b. vessel at Fla. unit-ton. 1.03 - —
Superphosphate, triple, 48% or more a.p.a., pulv., bulk, c.l., East Tampa, Fla., unit-ton. 1.00 - —
Sweet birch oil, USP, northern, cns..lb. 4.00 - 9.50
USP, southern, cns.....lb. 2.00 - 3.05

T

2,4,5-T, dms., c.l., works, frt. equald. lb. 1.18 - —
dms., l.c.l., same basis .....lb. 1.25 - —
2,4,5-T, isopropyl ester, dms., c.l., works, frt. equald..lb. 1.24 - —
dms., l.c.l., works .....lb. 1.29 - —
Talc, dom., fibrous, grd., bgs., c.l., works, New York..ton.28.00 - —
bgs., l.c.l., works ....ton.31.00 -36.00
fibrous, 99.5%, 325 mesh, bgs., c.l., works, New York..ton.31.00 - —
bgs., l.c.l., works .....ton.34.00 - —
Talc, dom., fibrous, 99.95%, 400 mesh, micronized, bgs., c.l works ton.38.00 - —
625 mesh, micronized, bgs., c.l., works ton.80.00 - —
ord., Calif., grd., bgs., c.l., works ton.34.00 -39.50
Vermont, off-color, grd., bgs., c.l., works..ton.19.40 - —
bgs., l.c.l., works .....ton.37.00 - —
Imp., Canadian, grd., bgs., c.l., mines ton.20.00 -35.00
Tall oil, crude, dms., c.l., works lb. .04¼- .04½
tanks, works ..... lb. .02⅞- .03
Dist., depending on grade, dms., c.l., works..lb. .06½- .07¼
dms., l.c.l., works .....lb. .07 - .08
tanks, works ..... lb. .04½- .05¼
Tall oil, refd., depending upon grade, dms., c.l., works lb. .07¼- .09
dms., l.c.l., works .....lb. .07½- .09¼
tanks, works ..... lb. .05¼- .06¾
Tall oil acids, dms., c.l., works...lb. .07 - .10
dms., l.c.l. .....lb. .07½- .10½
tanks, works .....lb. .05 - .08
Tallow, edible, tanks, dlvd .....lb. .08⅞- —
Inedible, fancy, bleachable, tanks, lb. .05⅝- —
fancy, guaranteed, bulk, f.o.b. steamer..lb. .06¼ —
dms., f.a.s. ..... lb. .07¼- —
tanks, dlvd. .....lb. .05¾- .05⅞
No. 1, tanks, dlvd. .....lb. .04¾- .04⅞
Prime, tanks, dlvd .....lb. .05⅝- —
Special tanks, dlvd .....lb. .05⅛- —
Sulfonated, 25%, bbls., l.c.l..lb. .08½- .08¾
50%, bbls., l.c.l. .....lb. .10½- .11
Tallow acids, dist., dms. .....lb. .13¼- .15¾
tanks .....lb. .10¾- —
Hydrogenated, dms. .....lb. .14¾- .17¼
Tallow oil, acidless, dms., c.l. ..lb. .13½- —
dms., l.c.l. .....lb. .14½- .15½
Tangerine oil, Florida, dms.....lb. 4.75 - —
Tankage, animal, feeding, 9-11% ammonia, New York bulk, unit-ton. 4.75 - 5.00
Tannic acid, NF, fluffy, bbls., 1,000-lb. lots..lb. 2.05 - —
bbls., smaller lots .....lb. 2.06 - 2.07
NF, powd., bbls., 1,000-lb. lots..lb. 1.95 - —
bbls., smaller lots.....lb. 1.96 - 1.99
Tech., dms. .....lb. 1.05 - —
Tansy oil, dms.....lb. 6.60 - 8.00
Tar acid oil, 15-18%, dms., c.l., frt. equald..gal. .53½- —
dms., l.c.l., same basis.....gal. .55½- —
tanks, same basis .....gal. .43½- —
Tar acid oil, 25-28%, dms., c.l., same basis..gal. .60 - —
dms., l.c.l., same basis.....gal. .62 - —
tanks, same basis .....gal. .50 - —
50-53%, dms., c.l., same basis..gal. .75 - —
dms., l.c.l., same basis.....gal. .77 - —
tanks, same basis.....gal. .65 - —
Tar, coal (see Coaltar).
Tartar emetic (see Antimony potassium tartrate).
Tartaric acid, NF, 100-lb. bgs., c.l., frt. equald. lb. .41 - —
bgs., 10,000 lbs., 1 shipt., same basis lb. .43 - —
bgs., smaller lots, same basis lb. .47 - —
Terpine hydrate, NF, cryst., powd., 100-lb. fib. dms..lb. .70 - —
Terpineol, extra, dms.....lb. .50 - .60
Prime, dms. .....lb. .40 - .50
Terpinyl acetate, extra, cns., dms. lb. .64 - .75
Prime, dms. .....lb. .53 - .56
Terpinyl propionate, dms. .....lb. 1.70 - —
Testosterone, USP, bots. ... gram. No prices.
Testosterone propionate, USP, bots. gram. No prices.
Tetrachloroethane, dms., works ..lb. .14½- —
Tetrasodium pyrophosphate (see Sodium pyrophosphate).
Tetrachloroethylene, tech. (see Perchloroethylene).
Tetrachloroethylene, USP, 55-gal. dms., c.l., t.l., works..lb. .20½- —
dms., l.c.l., works .....lb. .22 - .23½
Tetraethyl orthosilicate, dms., c.l., dlvd. E..lb. .60 - —
dms., l.c.l., dlvd. E.....lb. .61½- —
Tetraethyl pyrophosphate, 40%, cns., dms., frt. equald..lb. .75 - —
Tetraethylenepentamine, dms., c.l., dlvd. E..lb. .53½- —
dms., l.c.l., dlvd. E.....lb. .55 - —
tanks, dlvd. E ..... lb. .51 - —
Tetraethylthiuram disulfide, tech., dms., frt. alld..lb. 1.04 - —
Tetrahydrofuran, dms., c.l., t.l., works..lb. .36½- —
dms., l.c.l., or l.t.l., works.....lb. .37 - —
tanks, works .....lb. .35 - —
Tetrahydrofurfuryl alcohol, dms., c.l., t.l., Memphis, Tenn. lb. .31½- —
dms., l.c.l., Memphis, Tenn..lb. .32½- —
dms., c.l., t.l., Newark, N.J..lb. .33½- —
dms., l.c.l., Newark, N.J.....lb. .34½- —
tanks, dlvd. E. of Denver.....lb. .31 - —
tanks, dlvd. W. of Denver.....lb. .32 - —
Tetrahydrophthalic anhydride, dms., c.l., t.l., frt. alld. E..lb. .39 - —
l.c.l., l.t.l., same basis.....lb. .41 - —
Tetrapotassium phosphate (see potassium phosphate).
Thallium metal, dlvd.....lb. 7.50 -10.00
Thallium sulfate, 99%, bots., dlvd. lb. 5.00 -10.00
Theobromine, NF, fib. dms., 100-lbs., f.o.b., works..lb. 4.40 - 5.50
Theobromine and sodium acetate, USP, fib. dms., 500-lbs. works..lb. 6.45 - —
Theobromine, sodio-salicylate, NF, fib. dms., 500-lbs., works. lb. 3.80 - —
Theophyline, USP, anhyd., 100-lb. dms., frt. alld. lb. 3.65 - —
Thiamine hydrochloride, USP, fib. dms., frt. alld..kilo.36.00 - —
USP, ampule grade, fib., dms., frt. alld..kilo.38.00 - —
Thiamine mononitrate, USP, fib. dms., frt. alld kilo.36.00 - —
Thiocarbanilide, dms., ton lots lb. .72 - —
dms., less ton lots .....lb. .74 - —
Thiodiphenylamine (see Phenothiazine).
Thioflavin green toner, brilliant, molybdated, PMA, kgs., works lb. 5.20 - —
Tungstated, PTMA, kgs., works.lb. 6.20 - —
Thioglycolic acid, refd., 55 gal. dms., ton lots, 100% basis lb. 1.15 - —
Thiosalicylic acid, 80%, dms., 1,000-lb., lots, works lb. 4.00 - —
Thiourea, tech., bgs., t.l., frt. alld. lb. .30 - —
bgs., ton lots, same basis....lb. .32 - —
bgs., less than ton lots, same basis lb. .33 - —
Thorium nitrate, purif., fib. dms., 100-lb. lots or more, works lb. 3.50 - —
dl-Threonine, bots., 1-kilo lots kilo.275.00 - —
Thyme leaves, French, triple sifted extra, bgs..lb. .28 - —
Spanish, extra, bgs.....lb. .11 - —
triple sifted, bgs. .....lb. .25 - —
Spanish, bgs. .....lb. .09 - —
Thyme oil, NF, red, cns., dms....lb. 1.80 - 3.00
NF, white, cns .....lb. 2.10 - 3.20
Tech., white, cns. .....lb. .40 - 1.85
Thymol, fib. dms., 25-lbs., f.o.b. works lb. 3.06 - —
Thymol iodide, NF, dms., 100-lbs. f.o.b. works lb. 7.40 - —
Timbo root (see Cube root).
Tin chloride (see Stannous chloride, anhyd.).
Tin crystals (see Stannous chloride, hydrous).
Tin metal (Straits) .....lb. 1.04 - —
Tin oxide (see Stannic oxide).
Tin sulfate (see Stannous sulfate).
Tin tetrachloride, anhyd. (see Stannic chloride, anhyd.).
Titanium dioxide, anatase, ceramic, bgs., c.l., dlvd..lb. .25½- —
bgs., l.c.l., dlvd. .....lb. .26½- —
reg., bgs., c.l., dlvd. .....lb. .25½- —
bgs., l.c.l., dlvd. .....lb. .26½- —
metallurgical, nat., bgs., c.l., f.o.b. Jacksonville, Fla.ton.180.00 - —
bgs., 5-ton lots, Niagara Falls, N. Y....ton.205.00 - —
bgs., ton lots, same basis, ton.215.00 - —

Milled metallurgical titanium dioxide $7.50 per ton higher.

Titanium dioxide, rutile, nonchalking, bgs., c.l., dlvd. E lb. .27½- —
bgs., l.c.l., dlvd. E .....lb. .28½- —
Titanium dioxide-calcium pigment, 30% Ti O_2, reg., bgs., c.l., dlvd..lb. .09¾- —
bgs., l.c.l., works .....lb. .09⅞- —
50% Ti O_2, high-tinting, dms., c.l., lb. .14¾- —
dms., l.c.l. .....lb. .14⅞- —
Titanium hydride, powd., dms., works lb. 8.10 - 9.00
Titanium tetrachloride, tech., dms., c.l., works..lb. .26 - —
dms., l.c.l., works.....lb. .27½- .29
tanks, works .....lb. .20 - —
Tobias acid, dms., c.l., t.l.....lb. .81 - —
dms., l.c.l. .....lb. .84 - —
d-a-Tocopherols, NF, mixer, conc., pure basis, bots. kilo.67.00 - —
d-a-Tocopheryl acetate, NF, conc., pure basis, bots. kilo.122.00 - —
d-a-Tocopheryl acid succinate, cryst., bots. kilo.109.00 - —
dl-a-Tocopherol, bots. .....kilo.99.00 - —
dl-a-Tocopheryl acetate, bots k'lo.90.00 - —
25% dry, powd., bots.....kilo.22.50 -24.00
33% dry, powd., bots. .....kilo.30.00 -31.50
o-Tolidine base, dry, kgs., 100% basis..lb. 1.55 - —
Paste, kgs., 100% basis.....lb. 1.50 - —

TOLUOL

Toluol quotations, both coaltar and petroleum, may be found under Toluene.

o-Tolidine, hydrochloride paste, kgs., 100% basis..lb. 1.50 - —
Tolu balsam, cns. .....lb. 3.50 - 3.65
Toluene, coaltar, indust., or nitration, tanks, dlvd. E. of Rockies gal. .25 - —
Toluene, petroleum, indust., tanks, dlvd. E. of Rockies..gal. .25 - —
p-Toluenesulfonamide, powd., dms., t.l., works. lb. .60 - —
dms., l.t.l., same basis.....lb. .63 - —
Toluenesulfonic acid, 55-gal. dms., t.l., frt. alld. lb. .16 - —
1,000-lb. or more, same basis..lb. .18 - —
less than 1,000-lb., same basis..lb. .23 - —
tanks, same basis.....lb. .14 - —
Toluenesulfonic acid in 10-gal. dms., 2c. per lb. more.
p-Toluenesulfonic acid monohydrate, dms., c.l., or t.l..lb. .90 - —
dms., 125 lbs. to t.l. .....lb. 1.00 - —
m-Toluidine, dms., c.l., works, frt. alld..lb. .83 - —
dms., l.c.l., same basis.....lb. .84 - —
tanks, same basis.....lb. .82 - —
o-Toluidine, dms., c.l., works, frt. alld..lb. .30 - —
dms., l.c.l., same basis.....lb .31 - —
tanks, same basis .....lb. .28 - —
p-Toluidine, tech., flake, dms., frt. alld..lb. .50 - —
Cast, dms., frt. alld. .....lb. .45 - —
p-Toluidine-m-sulfonic acid, dms., works lb. .92 - 1.04
Toluidine red toner, deep shades, kgs., works..lb. 1.70 - —
Light shades, kgs, works .....lb. 1.70 - —
2,4-Tolylenediamine, cryst., fib. dms., l.c.l., frt. alld..lb. 1.10 - —
Tonka beans, Angostura, cks. ...lb. 1.50 - —
Brazilian, Surinam, cs. .....lb. 1.30 - —
Totaquine, 100-oz. lots, cns. ....oz. .42 - —
Toxaphene, dms., c.l., t.l., works. lb. .22 - —
dms., l.c.l., l.t.l., works.....lb. .28 - —
Tragacanth gum, No. 1, ribbons, cs..lb. 4.10 - 4.20
No. 2, cs. .....lb. 3.75 - 3.80
No. 3, cs. .....lb. 3.40 - 3.65
USP, powd., bbls. .....lb. 1.05 - 1.15
Triacetin dms., c.l., dlvd. E. of Rockies..lb. .39 - —
dms., l.c.l., same basis.....lb. .40 - —
tanks, same basis.....lb. .37 - —
Triallylamine, dms., c.l., dlvd...lb. .985 - —
dms., l.c.l., dlvd. .....lb. .995 - —
tanks, dlvd. .....lb. .96 - —
Tributyl citrate, tech., non-ret. dms., c.l., frt. alld. E. of Denver. lb. .42½- —
non-ret. dms., l.c.l., frt. alld. E. of Denver..lb. .43½- —
tanks, frt. alld. E. of Denver.lb. .40 - —
Tributyl phosphate, dms., c.l., works. lb. .52½- —
dms., l.c.l., same basis.....lb. .53½- —
tanks, same basis.....lb. .50 - —
Tributylamine dms., c.l., works..lb. .67½- —
dms., l.c.l., same basis.....lb. .69 - —
tanks, same basis.....lb. .65 - —
Tributyrin, dms., l.c.l., dlvd. ....lb. .69 - —
Trichloroacetic acid, 300 lb. dms., c.l...lb. .52 - —
Trichlorobenzene, dms., c.l., frt. alld. E lb. .15 - —
dms., l.c.l., frt. alld. E. .....lb. .16 - —
tanks, frt. alld. E. .....lb. .13¼- —
Trichlorobenzene prices in the West 1¾c. higher.
1,1,1-Trichloroethane, dms., c.l., dlvd. lb. .13¼- —
dms, l.c.l., dlvd. .....lb. .16¼- —
tanks, dlvd. .....lb. .12¼- —
1,1,2-Trichloroethane, dms., c.l., works lb. .13½- —
dms., l.c.l., dlvd. E.....lb. .14¼- —
tanks, works .....lb. .11½- —
Trichloroethylene, dms., c.l., or t.l., dlvd lb. .14 - —
dms., l.c.l., dlvd. ... .lb. .15¼- —
tanks, dlvd. .....lb. .12¾- —
Trichloroisocyanuric acid, dms., c.l., t.l., frt. equald lb. .65 - —
dms., l.c.l., same basis lb. .75 - —
Trichlorophenoxyacetic acid (see 2,4,5-T).
Tricholine citrate, 65% soln., ret. cbys., works, frt. adjusted. lb. 1.40 - 1.45
Tricresyl phosphate, coaltar, dms., c.l., dlvd lb. .35 - —
dms., l.c.l., dlvd. .....lb. .36 - —
tanks, dlvd. .....lb. .32½- —
Tricresyl phosphate, petroleum, dms., c.l., dlvd lb. .34½- —
dms., l.c.l., dlvd .....lb. .35½- —
tanks, dlvd. .....lb. .32½- —
Tridecyl alcohol, mixed isomers, dms., c.l., dlvd. E lb. .26½- —
dms., l.c.l., dlvd. E .....lb. .28 - —
tanks, dlvd. E .....lb. .24 - —
Triethanolamine, dms., c.l., dlvd. E. lb. .24½- —
dms., l.c.l., same basis.....lb. .26 - —
tanks, same basis .....lb. .22 - —
Triethanolamine lauryl sulfate, dms., c.l., t.l., frt. alld. lb. .25½- —
dms., l.t.l., frt. alld. .....lb. .26½- —
tanks, frt. alld. .....lb. .24½- —
Triethylamine, dms., c.l., dlvd. E. lb. .50 - —
dms., l.c.l., same basis.....lb. .51½- —
tanks, same basis .....lb. .47½- —
Triethyl nitrate, refd., tech., non-ret. dms., c.l., frt. alld. E. of Denver lb. .46¼- —
non-ret. dms., l.c.l., frt. alld. E. of Denver lb. .47¼- —
tanks, frt. alld. E. of Denver. lb. .43¾- —
Triethyl phosphate, dms., c.l., dlvd. lb. .40½- —
dms., l.c.l., dlvd. .....lb. .42 - —
tanks, dlvd. .....lb. .38 - —
Triethylene glycol, dms., c.l., dlvd. E lb. .21 - —
dms., l.c.l., dlvd. E.....lb. .22½- —
tanks, same basis.....lb. .18½- —
Triethylenetetramine, dms., c.l., dlvd. E lb. .51½- —
dms., l.c.l., dlvd. E .....lb. .53 - —
tanks, dlvd. E .....lb. .49 - —
Triisobutylene, tanks, dlvd. .....lb. .08 - —
Tri-isopropanolamine, dms., c.l., dlvd. E..lb. .23¼- —
dms., l.c.l., dlvd. E.....lb. .24¾- —
tanks, dlvd. E .....lb. .20¾- —
Trimethylamine, anhyd., cyls., l.c.l., frt. equald, 100% basis lb. .30 - .303
tanks, frt. equald, 100% basis, lb. .26 - —
25-40% soln., dms., c.l., frt. equald, 100% basis lb. .35 - —
dms., l.c.l., frt. equald, 100% basis lb. .35½- —
tanks, 100% basis, frt. equald lb. .26 - —
Trimethylolpropane, dms., c.l., t.l., dlvd. E. lb. .35 - —
dms., l.c.l., l.t.l., same basis....lb. .36 - —
Trioxanes, pure, dms., c.l., t.l., works..lb. .50 - —
dms., l.c.l., works .....lb. .51½- —
Tripentaerythritol, bgs., c.l., t.l., dlvd. E lb. .40 - —
bgs., l.c.l., l.t.l., dlvd. E lb. .41 - —
Triphenyl phosphate, bbls., c.l., frt. equald lb. .41½- —
bbls., l.c.l., frt. equald .....lb. .43½- —
Triphenylguanidine, bbls., works lb. .90 - —
Tripropylene, dms., c.l., dlvd. E gal. .44 - —
dms., l.c.l., same basis.....gal. .54 - —
tanks, same basis .....gal. .28 - —
Tripropylene glycol, dms., c.l., t.l., frt. alld. E lb. .20½- —
dms., l.c.l., l.t.l., frt. alld. E lb. .22 - —
tankcars and compartmented tankcars, frt. alld. E lb. .17½- —
Tripropylene glycol, tankwagon and compartmented tankwagons, 1,000 gals. min. frt. alld. E..lb. .18 - —
Tripropylene glycol prices 1c. per lb. higher in west.
Trisodium phosphate (see Sodium phosphate tribasic).
dl-Tryptophane, fib., dms., works lb.55.00 - —
Tung oil, dms., New York .....lb. .24 - .24½
tanks, imported, N. Y. .....lb. .22¼- .22½
tanks, domestic, mills .....lb. .22½ Nom.
Tungsten metal, powd., 2.0-2.5 microns, dms., works ...lb. 4.25 - —
Tungstic acid, tech., dms., 1,000-lb. lots, works..lb. 2.25 - —
dms., smaller lots, works....lb. 2.45 - —
Turkey red, bbls., works .....lb. .62 - —
Turpentine, gum (see Protective Coatings market, Naval Stores).
Turpentine oil, NF, cns., dms. lb. .28 - .50
Tuscan red, bbls., frt. equald ...lb. .26 - .32
Tyrothricin, USP, 1 to 5 kilos..gram. .54 - —

U

Ultramarine blue, cobalt type, dry or pulp, 250-lb. bbls., dlvd. E. of Rockies lb. .30½- .35
Jobbing types, dry, bbls., same basis lb. .16 - .22½
Regular types, dry bbls., same basis lb. .16 - .37½
Ultramarine blue prices 1c. higher W. of Rockies.
Umber pigment, burnt, American, bgs., c.l., works..lb. .07½- .07¾
bgs., l.c.l., works.....lb. .07¾- .08
Umber pigment, burnt, turkey-type, bgs., c.l., Boston, Bethlehem, Easton, Pa., Hiwassee, Va., N. Y..lb. .08¼- —
Raw, American, bgs., works....lb. .07¼- .08¼
Turkey-type, bgs., works .....lb. .08½- .08¾
Undecylenic acid, 55-gal. dms., f.o.b. works..lb. 1.28 - —
Unicorn root, false (see Helonias root).
Unicorn root, true (see Aletris root).
Urea, 46% N, indust., bgs., c.l., t.l., dlvd. E..ton.125.00 - —
bgs., l.c.l., dlvd. E. ex whse. ton.145.00 - —
45% N, agricultural, bgs., c.l., (30 tons) dlvd. E. ton.103.00 - —
Urea-ammonia liquor A, B, C & F grades, N basis, tanks, frt. equald..ton.120.00 - —
37 grade, tanks, same basis..ton.145.00 - —

Urethane, USP, dms., t.l., f.o.b., works..lb. .65 - —
dms., l.t.l., same basis.....lb. .70 - —
Uva-ursi leaves, bls .....lb. .12 - —

V

Valerian root, Belgian bgs. ....lb. .32 - —
Indian, bgs. .....lb. .25 - —
dl-Valine, dms., works.....lb.21.00 -27.50
Vanadium pentoxide, tech., dms., works..lb. 1.38 - —
Vandyke brown, bbls., works lb. 09½- .12
Vanilla beans, Bourbon, tins....lb.10.00 - —
Mexican cuts, tins.....lb.10.00 - —
whole, tins .....lb.10.50 - —
Vanillin ex lignin, 100-lb. fib. dms., 2,000-lb. lots or more..lb. 2.50 - —
less than 2,000 lbs.....lb. 2.70 - —
Venetian red, jobbing, bgs., works. lb. .0475- —
Venetian red, 20%, bgs., works. lb. .0525- —
25%, bgs., works.....lb. .0575- —
30%, bgs., works.....lb. .06 - —
35%, bgs., works.....lb. .0625- —
40%, bgs., works.....lb. .0675- —
Vetiver oil, Bourbon, cns. .....lb.17.25 -17.50
Haitian, cns. .....lb.14.00 -14.50
Victoria blue toner, molybdated, PMA 250-lb. bbls., dlvd. E. of Rockies lb. 4.50 - 4.95
Tungstated, PTMA, 250-lb. bbls., dlvd. E. of Rockies lb. 5.55 - —
Victoria blue toner, bbls., prices 1c. higher W. of Rockies.
Vinyl acetate monomer, zone 1, 55-gal. dms., c.l., dlvd..lb. .1810- —
55-gal. dms., l.c.l., dlvd.....lb. .1960- —
tanks, dlvd. .....lb. .1560- —
tanktrucks less than 4,000 gal., dlvd..lb. .1610- —
Zone 2, 55-gal. dms., c.l., dlvd..lb. .1910- —
55-gal. dms., l.c.l., dlvd.....lb. .2210- —
tanks, dlvd. .....lb. .1660- —
tanktrucks, less than 4,000 gals., dlvd..lb. .1710- —
Zone 1 is all continental US except zone 2, zone 2 comprises Ariz., Calif., Idaho, Mont., Nev., Ore., Utah and Wash.
Vinyl n-butyl ether, tech., dms., l.c.l., works lb. .50 - —
Vinyl chloride monomer, tanks, works lb. .125 - —
Vinyl ether, USP, anethesia, bots., 50cc., hospitals..bot. 1.12 - —
bots., 75cc., hospitals ... bot 1.56 - —
Vinyl ethyl ether tech. dms., c.l., works..lb. .29¼- —
dms., l.c.l., works.....lb. .30 - —
tanks, works .....lb. .27½- —
Vinyl propionate monomer, dms., c.l., dlvd..lb. .49 - —
dms., l.c.l., same basis.....lb. .50 - —
tanks, same basis .....lb. .47 - —
Vinyl trichloride (see Trichloroethane).
2-Vinylpyridine, 10 dms. to tanks, works..lb. 1.20 - —
1 to 9 dms., works.....lb. 1.35 - —
tanks, works .....lb. 1.15 - —
Vinyltoluene, dms., c.l., f.o.b., works. lb. .16½- —
dms., l.c.l., same basis.....lb. .18½- —
tanks, f.o.b. dest. frt. prepaid..lb. .14 - —
Viosterol in nat. vegetable oil, 1,000,000 D units per gram, bots., lots of 10 billion USP units..1,000,000 units. .02½- —
Virginia type red, bbls., works lb. 1.40 - —
Vitiamin A acetate, syn., cryst., beads, 500,000 A units per gram..gram .07¼- —
Vitamin A acetate, dry, 500,000 units per gram, kilo lots..kilo.65.00 - —
325,000 units per gram, same basis kilo.43.88 - —
250,000 units per gram, same basis. kilo.33.75 - —
Dry vitamin A acetate in less than kilo lots, $1.25 to $2.50 per kilo higher.
Vitamin A, liq. in oil, 1,000,000 A units per gram..1,000,000 units. .09½- —
Vitamin A palmitate, liq., 1,000,000-1,800,000 A units per gram..1,000,000 units. .09½- —
Vitamin B_1 (see Thiamine hydrochloride).
Vitamin B_2 (see Riboflavin and Yeast).
Vitamin B_{12}, cryst., USP (cyanocobalamin), 1-50 grams, vials, tins..gram.83.00 - —
0.1% vitamin B_{12}, USP, adsorbed on gelatin, 100 and 500-gram bots on 1-5 kilo dms..gram.1.00 - —
0.1% vitamin B_{12}, USP adsorbed on resin, 100 and 500-gram bots., 1-5 kilo dms., gram. 1.00 - —
Vitamin B_{12}, oral grade solids in containers of 1 and 10 gram of B_{12} activity.gram.85.00 - —
0.1% trituration of cryst., B_{12} with dicalcium phosphate or mannitol, 1-10..kilo.95.00 - —
Vitamin B_{12}, 0.1% cobalamin concentrate, NF, adsorbed on resin, 500-gram bots., 1-5 kilo, dms., frt. alld..gram. .90 - —
0.1% cobalamin concentrate in gelatin, 1-10 kilo. dms., frt. alld..gram. .90 - —
Vitamin C (see Ascorbic acid).
Vitamin D_2 (see Codliver and Fishliver oils, Calciferol and Viosterol).
Vitamin D, dry, 850,000 units per gram, kilo lots..kilo.42.50 - —
850,000 units per gram less than kilo lots..kilo.45.00 - —
Vitamin E (see a-Tocopherol and Wheat germ oil).
Vitamin H (see Biotin).
Vitamin K, active (see Menadione).
Violet methyl toner (see Methyl violet toner).
VM&P naphtha (see Naphtha, VM&P, petroleum).

W

Wahoo root bark, bls. .....lb. 2.00 - 2.25
Warfarin, 0.5%, dms., 50-lb. lots, dlvd..lb. 1.95 - —
dms., 25-49-lb. lots, New York or Chicago..lb. 2.05 - —
dms., 3-24-lb. lots, New York or Chicago..lb. 2.15 - —
Watchung-type reds., bbls.....lb. 1.95 - —

WAXES
Wax quotations are listed individually. For example, prices on Wax, carnauba, may be found in the C's under Carnauba wax.

Wheat germ oil, 5-gal. dms. ..gal.12.25 - —
White lead (see Lead, white).
White mineral oil (see Mineral oil, white).
White pine bark, rossed, bls.... lb. .21 - .22
White precipitate, USP, powd., dms., 100 lbs., f.o.b. works..lb. 5.50 - —
Whiting (see Calcium carbonate).
Wild cherry bark, thin, nat., bls..lb. .22 - —
Thin, rossed, bls. .....lb. .22 Nom.
Wintergreen oil, USP nat. northern, cns..lb. 6.35 -17.50
USP, nat. southern cns .....lb. 3.75 - 7.00
Wintergreen oil, syn. (see Methyl salicylate).
Witch hazel bark, bls .....lb. .16 - .17
Witch hazel leaves, bls. .....lb. .27 - .28

Wollastonite fine bgs., c.l., works. ton.39.50 - —
bgs., l.c.l. ex whse.....ton.56.00 - —
Medium, bgs., c.l., works....ton.27.00 - —
bgs., l.c.l., ex whse. .....ton.44.00 - —
Wood alcohol (see Methanol).
Wood oil (see Tung oil).
Woolfat crude (see Degras).
Woolfat USP (see Lanolin).
Wormseed Levant bgs. .....lb. 2.50 - —
Wormseed oil (see Chenopodium oil NF).
Wordwood oil, cns. .....lb. 4.50 - 4.75

X

Xylene coaltar, indust., tanks, works:
Bethlehem, Pa. .....gal. .29 - —
Birmingham dist. .....gal. .29 - —
Chicago dist. .....gal. .28½- —
Cleveland dist. .....gal. .29 - —
Geneva, Utah.....gal. .29 - —
Johnstown, Pa. .....gal. .29 - —
Lackawanna, N. Y .....gal. .29½- —
Lone Star, Tex. .....gal. .27 - —
Lorain, Ohio.....gal. .29 - —
Middletown, Ohio.....gal. .30 - —
Minnequa, Col. .....gal. .29 - —
Philadelphia dist. .....gal. .29 - —
Pittsburgh dist. .....gal. .29 - —
Sparrows Point, Md. ...gal. .29 - —
Terre Haute, Ind. .....gal .29 - —
Youngstown, Ohio.....gal. .29 - —
Xylene, petroleum, indust., tanks f.o.b. works:
Bayonne, N. J .....gal. .29 - —
Baytown, Tex. .....gal. .27 - —
Charleston, S. C. .....gal. .29 - —
Chicago, Ill .....gal. .28½- —
Detroit, Mich., dlvd....gal. .27½- .29
Houston, Tex. .....gal. .27 - —
Philadelphia, Pa. .....gal. .29 - —
Providence, R. I. .....gal. .30 - —
Sewell's Point, Va. .....gal. .28 - —
Wood River, Ill. .....gal. .28½- —

m-Xylene, 95%, dms., c.l., f.o.b., Richmond, Calif..lb. .25 - —
dms., l.c.l., f.o.b., Richmond, Calif..lb. .26 - —
tanks, frt. alld. .....lb. .23 - —
o-Xylene, dms., c.l., works.....lb. .08 - —
dms., l.c.l., works.....lb. .09 - —
tanks, works.....lb. .06 - .06½
p-Xylene, dms., c.l., works.....lb. .20 - —
dms., l.c.l., works.....lb. .21 - —
tanks, frt. alld. .....lb. .1645- —
Xylenol, cryst., 45°-47°C., m.p., dms., l.c.l., works..lb. .23 - —
56°-58°C., m.p., dms., l.c.l., works, frt. equald..lb. .33 - —
Xylenol, cryst., 60°-62°C., m.p., dms., l.c.l., same basis. lb. .40 - —
Xylenol fraction, b.r. 7°-9° C., dry above 227° C., dms., c.l., same basis..gal. 1.25 - —
dms., l.c.l., same basis..gal. 1.30 - —
tanks, same basis.....gal. 1.05 - —
b.r. 7°-9° C., dry at or below 227° C., dms., c.l., same basis. gal. 1.35 - —
Xylenol fraction, b.r. 7°-9° C., dry at or below 227° C., dms., l.c.l., same basis..gal. 1.40 - —
2,4-Xylidine, tech., dms., frt. alld. lb. 1.15 - —
2,5-Xylilline, tech., dms., frt. alld. lb. 1.20 - —

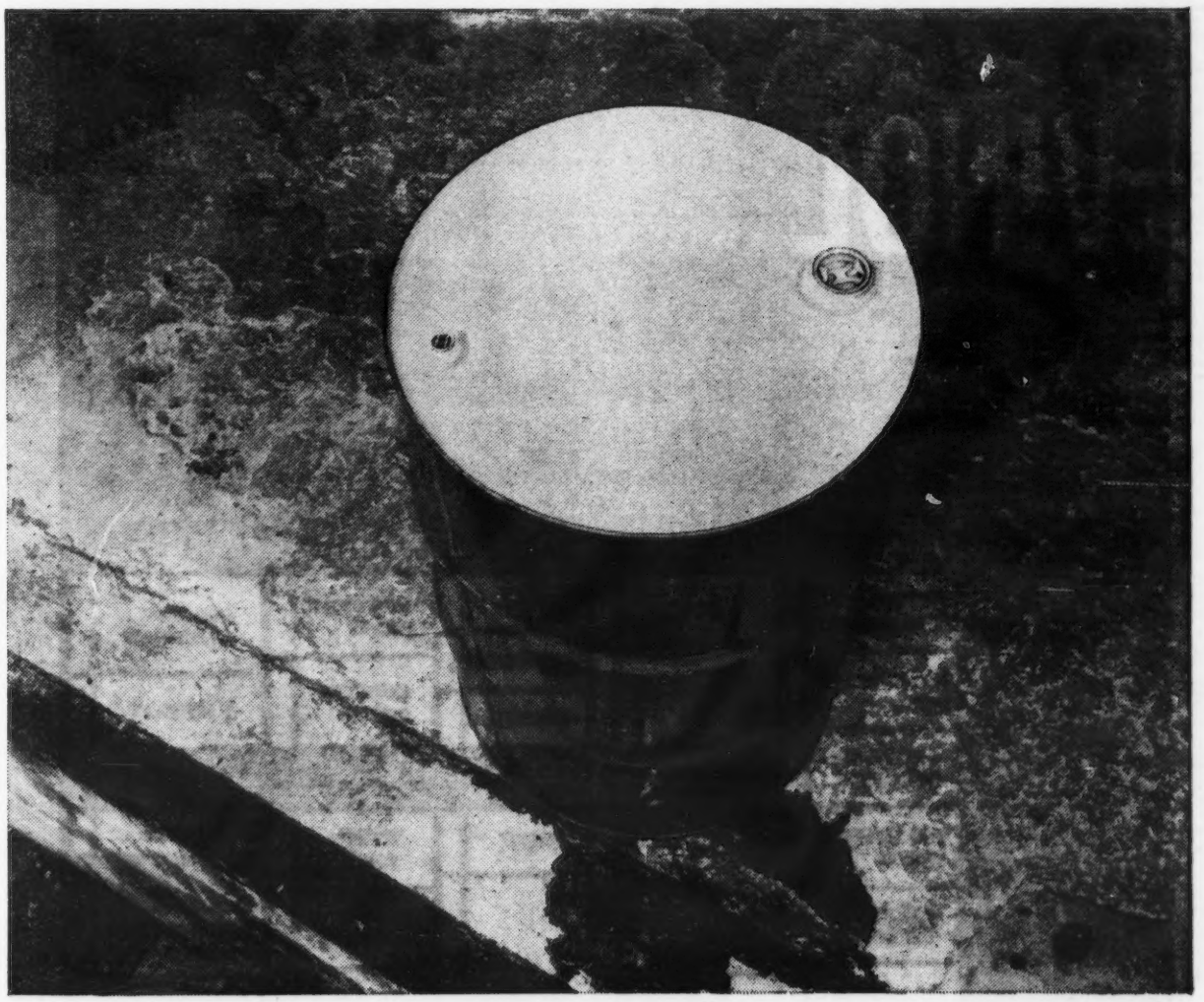
Xylidines, mixed, o-m-p, dms., c.l., or t.l., works..lb. .39 - —
dms., l.c.l., same basis.....lb. .40 - —
tanks, same basis.....lb. .33 - —

XYLOL
Xylol quotations, both coaltar and petroleum, may be found under Xylene.

Y

Yara yara oil, cns. .....lb. 2.15 - 3.05
Yeast, brewers, debittered, USP XV, Sacchomyces, dlvd..lb. .27 - —
Yeast, brewers, primary, USP XV, 150 meg. B^1 per gram, 100-lb. dms..lb. .47 - —
USP XV, 270 mcg., B_1 per gram, 100-lb. dms..lb. .52 - —
USP XV, 300 mcg., B_1 per gram, 100-lb. dms..lb. .56 - —
USP XV, 900 mcg., B_1 per gram, 100-lb. dms. ....lb. .60 - —
Torula, USP, dlvd. .....lb. .18 - —

YELLOW PIGMENTS
Yellow pigment quotations are listed individually. For example, prices on Yellow, benzidine, may be found in the B's under Benzidine yellow.



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Yerba Santa Leaves—Zirconium Oxychloride

Yerba santa leaves, bls.	lb.	.40	.45
Ylang-ylang oil, Bourbon, bots.	lb.	7.00	22.00
extra, bots.	lb.	24.00	33.00
extra, bots.	lb.	24.00	33.00
Yohimbine hydrochloride, bots., tins.	oz.	3.75	4.25

Z

Zein, bgs., 36,000-lb. lots or more, bgs., 500-lb. lots or more, dlvd	lb.	.343	—
bgs., smaller lots, dlvd	lb.	.373	—
Zinc acetate, NF, VIII, dms.	lb.	.53	—
Tech., dms., l.t.l., works	lb.	.29¾	—
Zinc borate, bgs., 1,000 lbs or more, works	lb.	.25	—
bgs., less than 1,000 lbs., same basis	lb.	.27	—
Zinc chloride, NF, gran., dms	lb.	.42	—
NF, precip., powd., dms	lb.	.26	—
Tech., soln., 50%, dms., c.l., works 100 lbs.		5.80	—
dms., l.c.l., works 100 lbs.		6.40	—
tanks, works 100 lbs.		5.15	—
fused, dms., c.l., works 100 lbs.		10.70	—
dms., l.c.l., works 100lbs.		11.20	—
gran., fib. dms., c.l., works. 100 lbs.		11.45	—
fib. dms., l.c.l., works 100 lbs.		11.95	—
Zinc chromate bbls., dlvd.	lb.	.29	—
Basic bbls., dlvd.	lb.	.34	—
Zinc cyanide, dms., 1,000-lb. lots or more, works	lb.	.55	—
dms., smaller lots, works	lb.	.57	—
Zinc dust coml. bbls., c.l., works.	lb.	.17	—
Pigment, bbls., c.l., works	lb.	.16½	—
bbls., l.c.l., works	lb.	.18¼	—
Zinc fluoride, bbls., works	lb.	.49	.50
Zinc hydrosulfite, dms., c.l., frt. alld.	lb.	.21½	—
dms., l.c.l., frt. alld.	lb.	.23½	—
Zinc metal prime western, slabs, E. St. Louis	lb.	.13	—
Prime western slabs, New York.	lb.	.13½	—
Zinc naphthenate liq. 8% Zn., dms., frt. alld.	lb.	.27	—
10% Zn., dms., frt. alld.	lb.	.33	—
Zinc nitrate, tech., cryst., bbls., works	lb.	.20	—
Zinc oxide, pigment, American process, lead-free bgs., c.l., frt. alld.	lb	.14½	—
bgs., l.c.l., 10 tons or more, same basis	lb.	.15	—
bgs., l.c.l., smaller lots, same basis	lb.	.15½	—
Zinc oxide, leaded, 35% bgs., c.l., mills, frt. alld.	lb.	.15⅜	—
bgs., l.c.l., 10 tons or more, same basis	lb.	.15⅞	—
50%, bgs., c.l., same basis	lb.	.15¾	—
pigment, American process, leaded, 50%, bgs., l.c.l., 10 tons or more, same basis.	lb.	.16¼	—
USP, gran., dms.	lb.	.26	—
French process, green seal, bgs., c.l., mills, frt alld	lb.	.16¼	—
bgs., l.c.l., 10 tons or more, same basis	lb.	16¾	—
Zinc oxide, French process, green seal, bgs., l.c.l., smaller lots, same basis	lb.	.17¼	—
red seal, bgs., c.l., same basis.	lb.	.15⅝	—
bgs., l.c.l., 10 tons or more, same basis	lb.	.16¼	—
bgs., l.c.l, smaller lots, same basis	lb.	16¾	—
white seal, bgs., c.l., same basis	lb	.16¾	—
bgs., l.c.l., 10 tons or more, same basis	lb	.17¼	—
bgs., l.c.l., smaller lots, same basis	lb	.17¾	—
Zinc oxide, USP dms., c.l., frt. alld.	lb.	.18¼	—
dms., l.c.l., 10 tons or more, same basis	lb	.18¾	—
dms., l.c.l., smaller lots, same basis	lb.	.19¼	—
Zinc phenolsulfonate, NF, gran., dms	lb.	.45	.46
NF, powd., dms.	lb.	.48	.49
Zinc resinate, precip, 7.2-7.6% Zn., dms., frt. alld.	lb.	.40¼	—
Zinc silicofluoride, dms., works	lb.	.12½	.14
Zinc stearate, tech., USP, ctns., c.l.	lb.	.41	—
ctns., l.c.l.	lb.	.42	.46
Zinc sulfate, powd., monohydrate, 36% Zn, bgs., c.l., dlvd.E.	100 lbs.	8.75	—
bgs., l.c.l., dlvd. E	100 lbs.	9.75	—
Zinc sulfate in bbls 40c. higher.			
Zinc sulfide, pure, bgs., c.l., dlvd	lb.	.2530	—
Zinc undecylenate, 75-lb. fib. dms., f.o.b. works	lb.	2.04	—
Zinc, yellow (see Zinc chromate).			
Zinc-ammonium chloride, bgs., c.l., works	100 lbs.	10.25	—
bbls., c.l., works	100 lbs.	10.85	—
bbls., l.c.l., works	100 lbs.	11.35	—
Zinc formaldehyde sulfoxylate, basic, 300-lb. dms., frt. alld.	lb.	.26	—
Normal, 250-lb. dms., frt. alld.	lb.	.52	—
Zircon (G) gran., bgs., c.l., works.	lb.	.03⅛	—
Zircon (G) gran., bgs., 5 tons to c.l., works	lb.	.03⅜	—
bgs., 1 ton to 9,999-lb. lots, works	lb.	.04	—
bgs., smaller lots, works	lb.	.06½	—
Zircon (G), milled, bgs., c.l., works.	lb.	.04½	—
bgs., 5 tons to c.l., works	lb.	.04⅝	—
bgs., 1 ton to 9,999-lb. lots, works	lb.	.04⅝	—
bgs., 500-1,999-lb. lots, works	lb.	.07½	—
Zircon (G) in barrels 1c. higher.			
Zirconium acetate soln., 13% ZrO_2, dms., c.l., 30,000 lbs. min., works	lb.	.23	—
Zirconium hydride, powd., electronic grade, dms., works	lb.	14.00	15.00
Zirconium oxide, CP, white, grd., bbls. or bgs., works	lb.	1.50	—
Electric-fused lump, bgs., 500 to 1,999-lb. lots, works	lb.	.48½	—
bgs., smaller lots, works	lb.	.51	—
milled, bgs., c.l., works	lb.	.62	—
bgs., 5-ton lots, works	lb.	.62½	—
bgs., 1-ton to 9,999-lb. lots, works	lb.	.63½	—
bgs., 500 to 1,999-lb. lots, works	lb.	.64	—
bgs., smaller lots, works	lb.	.66	—
Zirconium Oxide, Glass polishing grade, 94-97% ZrO_2, bgs., works	lb.	.55	.65
Opacifier grade, 85-90% ZrO_2, bgs.,	lb.	.27	.50
Stabilized oxide, 91% ZrO_2, milled, bgs	lb.	.62	.85
Zirconium oxychloride, cryst., ctns., 5-ton lots, works	lb.	.37½	—
bgs., l.c.l., smaller lots, same basis	lb.	.16⅝	—

check into Airco's new

VINOL polyvinyl alcohol resins

IN THESE FIELDS ▸

ADHESIVES*	TEXTILES	PAPER	PLASTICS	SPECIALTIES
COMPOUNDING	**SIZING**	**SURFACE SIZING**	**MOLDED PRODUCTS**	**EMULSIONS**
for hard-to-bind surfaces	warp	paper	compression molded	non-ionic emulsifiers
fast adhesion types	nylon hosiery yarns	paperboard	extrusion molded	thickeners
remoistenable types	**FINISHES**	**COATING**	**FILMS**	**CERAMICS**
wet strength types	thermosetting modifiers	paper	water soluble	binders
colloidal thickeners	non-permanent types	paperboard	grease resistant	**OTHERS**
*Supplied to the adhesives industry by Colton Chemical Co., Division of Air Reduction Co., Inc.	permanent types		solvent resistant	photosensitive coatings
	binders		gas impermeable	protective coatings for metal, plastics
				steel quenchant

FOR THESE APPLICATIONS ▸

Airco VINOL — a group of polyvinyl alcohol resins tailored for specific uses — offers advantages for a variety of industries. Available soon, Airco VINOL will open new possibilities for improving products and processes in such competitive fields as those listed above.

VINOL polyvinyl alcohol opens opportunities both to present users of polyvinyl alcohol and users of many competitive materials. Moderate price levels, together with the unusual versatility of VINOL polyvinyl alcohol, warrant its comparison, in many applications, with starch, casein, acrylics and other synthetic resins.

VINOL polyvinyl alcohol resins provide a wide range of characteristics such as water solubility, water resistance, adhesion to porous or non-porous surfaces, toughness, flexibility. Other key properties are resistance to grease, solvents, rotting and tearing.

VINOL grades represent a range of properties, reflecting differences in degree of hydrolysis and polymerization. However, all dissolve easily in water and form colorless solutions; all have little tendency to dust. Airco's exclusive continuous manufacturing process turns out resins of consistently high quality, free from variations often unavoidable in batch processing.

To receive the latest information about VINOL polyvinyl alcohol resins, check your interests above. We'll be glad to put your name on our mailing list to receive bulletins and samples as they become available.

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AIRCO® AIR REDUCTION CHEMICAL COMPANY

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150 East 42nd Street, New York 17, N. Y.

Represented Internationally by Airco Company International

Plastics Makers' Toe-Hold

—Continued from page 7

quirements of many industrial operations for high-strength, chemically-resistant, light-weight piping," he concluded.

Corrosion was also on the mind of G. P. Gladis, of International Nickle Company, who told the meeting how "water transforms some chemicals from Dr. Jekyll into Mr. Hyde."

This behavior can be minimized, he said by "judicious selection of corrosive-resistant materials of construction and by heeding the warning to "keep your process conditions dry."

Franklin Veztch of Standard Oil Company of Ohio described Sohio's new single-step process of acrylonitrile production.

The process—based on the direct conversion of propylene, ammonia and air—is now in use at the company s new plant in Lima, Ohio.

Production of acrylonitrile has increased from almost nothing to 200 million pounds annually in ten years, Mr. Veztch noted. The market should swell to 400 million pounds by 1965, he added.

The southwest has the lion's share of raw materials needed by the petrochemical industry, said John M. Dale, of the Southwest Research Institute, San Antonio, Tex.

Although new discoveries promise "to make the supply more abundant than ever," the diminishing rate of recovery per well drilled and the tendency toward deeper drilling give "every indication that on a per-barrel basis, the constant dollar cost of oil will continue to rise," he said.

The only way to offset this, Dr. Dale believes, is through fundamental research into the nature and occurrence of petroleum, "or the adoption of present finding technics with engineering skills to different environs such as the offshore areas beyond presently explorable limits."

CCDA and Canadian Group

—Continued from page 7

Hercules Powder Company; and Mr. Wishnick, executive vice-president of Witco Chemical Company. Moderator will be Dr. L. Patrick Moore, of Cyanamid of Canada, Ltd.

Afternoon speakers will emphasize US problems. The program includes introductory remarks by J. McGroarty, Merck & Co.; "Problems of Finance and Profitability in the Newer US Chemical Company," John R. Riley, president of Southern Nitrogen Company, Inc.; and "Problems of the US Chemical Industry from the Large Company's Standpoint," Norman E. Hathaway, Allied Chemical Corporation.

Closing the program will be a panel discussion by Hugh S. Sutherland, president of Shawinigan Chemical, Ltd., and E. Clyde Gregory, president of Ayerst, McKenna & Harrison, Ltd. George B. Wemple, manager of the chemical department of Irving Trust Company, will be moderator. A reception and banquet is scheduled to follow.

Glycerine's Beleif Holds

—Continued from page 7

call. What's more, wrapping with it was a hand operation and, it was expensive —$2.65 a pound.

Still, as a token of bigger things to come, the young industry managed to sell 521,074 pounds that year. In contrast to today's popular market, this output went exclusively to the carriage trade as a wrap for perfumes, high-priced candies and other luxury goods.

Oil, Paint and Drug Reporter

THE CHEMICAL MARKET AUTHORITY

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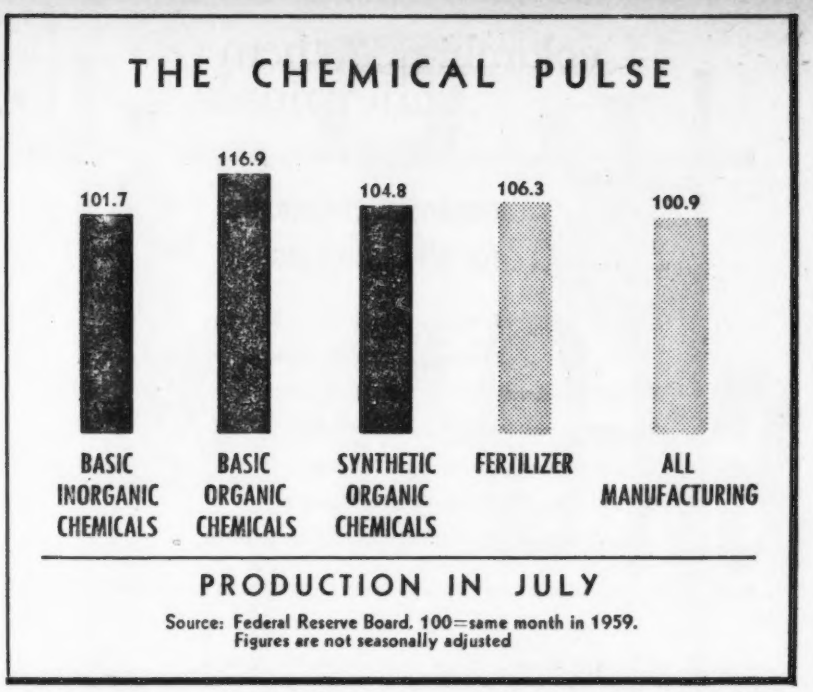

Aid for the New Africa

The United States made a good start in the manifestation of a friend-interest in the welfare of the newly created free states in Africa when it proposed that fourteen of them be admitted to membership in the United Nations. That manifestation was enhanced when the Secretary of State acted as host at a luncheon for the chief delegates of the twelve new African members of the United Nations. The government took another step forward when it diplomatically recognized the new republics of Senegal and Mali. It went farther along when Prisedent Eisenhower set forth his proposals for technical, educational, and financial aid for Africa. Then, of course, came the outburst in a UN session by the USSR Premier for freedom and against colonialism—in Africa, that is. What he had in mind as a substitute was not made at all clear. It is apparent that there is a possibility of another Korean situation in Africa if the needs of that continent are left to political ideological dealing.

Africa needs economic assistance commercially and socially as well as—much more than—politically. That is why private enterprise and private citizens of this country must get to work earnestly in that field. They have much to learn about what should be done and how to go about its doing. There must be no exhibiting of "big shot" and "whole show" attitudes in anything that is undertaken.

The Department of Commerce plans to send its first trade mission to East Africa this month. The tentative schedule for Kenya, Uganda, Tanganyika, and probably other states is set for October 22 to December 3. It will have five businessmen as members. More closely in keeping with what has recently been politically is the announcement that a trade mission may be sent to West Africa in the April-June period of next year. Orientation for the East African mission was held in Washington September 19-22. If the West African project materializes—business certainly should push for it—orientation for the mission will be held in Washington April 10-14, 1961.

Although it will be a part of a month-long Egyptian agricultural exhibition, the trade exhibit which the United States intends to stage in Cairo beginning March 21, next year, will stress free enterprise and in that role should be something worth careful evaluation by US business at large. In that connection, there is more than a little interesting information on possibilities for expanded or new markets for US chemicals and allied products in several places in Africa—as well as other continents—in a report by the US Foreign Service in the September 5 issue of "Foreign Commerce Weekly," beginning on page 10.

Observe UN Week

Because of what has been thrown at the United Nations—and at the United States individually and as a UN member—by the communistic propagandists and protagonists in their endeavors to stir up some sort of world trouble, it is of pertinent timeliness to remind—or to inform—the people of this country that the week of October 23-29 will be a period of celebration of the fifteenth anniversary of the United Nations and that October 24 will be UN Day.

That celebration—or commemoration—should be promoted, prepared, and properly implemented in every community in this country. That has already been recognized by gubernatorial action in a number of states, with an encouraging response in local government circles that should make the event all that it should be. In New Jersey, for example, the mayors of 327 communities have been invited by the state committee to cooperate in the development of statewide local observances fully in keeping with the importance of the occasion.

Private enterprise should do its part to make UN Week all that the United Nations deserve. UN Day should be made a holiday for all employees, and working forces should be asked and encouraged to join in an appropriate parade or other demonstration. US and UN flags should be displayed in full national holiday fashion.

It behooves every US citizen to make it unmistakeably plain and clear to those who have attacked the United Nations that they will get nowhere in this country with their purposes and programs of UN reformation. Today's efforts at global disruption on the part of those whose goal is world domination must be met with a nationwide demonstration that the people of the United States stand strongly and firmly behind their government in its UN position and that they hold the United Nations in the highest esteem for its purposes, its processes, and its potentialities.

For Cleaner Air

The October 23-29 period has two appeals for those who are in any way concerned with the promotion and maintenance of human welfare on any and all scales from local to global. In addition to being United Nations Week in this country, it will also be Cleaner Air Week. In the former role, it will have one special day. In the latter, its seven days will be devoted in turn to matters of community, houseskeeping, home-heating, automobile, industry, air pollution control, and overall progress.

The sponsoring Air Pollution Control Association has received this telegraphic message from President Eisenhower: "The twelfth observance of Cleaner Air Week emphasizes the continuing need for greater public effort to solve the problems caused by the hazard of air pollution. This year there are indications of renewed awareness of the seriousness of air pollution as a threat to human life and property. Activities connected with Cleaner Air Week call attention to the importance of the research groups. By these means the public is reminded that air pollution is an individual and community problem—its solution is everyone's gain." On its day of the week, industry should sincerely say "Amen" to that message.

The health-hazard potentialities of air pollution are getting an encouraging measure of the serious attention which they so clearly deserve. Comment on various aspects of that situation were made on this page four weeks ago. The American Industrial Hygiene Association has published "Air Pollution Manual, Part 1—Evaluation," written by thirteen prominent authorities in various areas of the field, which it quite modestly describes as "a brilliant technical treatise written in language everyone can understand, explaining procedures of evaluating air pollution. Public and community relations are discussed, and methods of handling complaints presented."

In the comments on the health hazards of air pollution, something new has been added to the much that has been said for centuries in all sorts of ways about the fog of London. A British physician has announced his intention to form an organization for sufferers of lung cancer in a movement to "force the government to launch a full-scale program of research into the causes of smog and its cure." His idea no doubt will find promoters in other countries—including the United States.

Washington Talks It Over

'Buy American' Act: There's Dissatisfaction in Washington Over the Way It's Being Administered. Gov't P. A.'s Accused of Placing Too Much Stress on Price and Too Little on Foreign Competition.

By Ralph L. Cherry
Washington Editor

There's growing dissatisfaction in Washington over the way the "Buy American" law is being administered. Charges are being heard that the current policy of enforcement is too liberal and that government purchasing officers are placing too much emphasis on prices and too little on the effects of foreign competition on American producers.

Renewed interest in the law stems from at least two important recent developments:

- Announced intentions of the military to do more buying of military medical needs from foreign suppliers because of big price differentials.
- Application of the "Buy American" act principles to the spending of federal funds by the states under the highway building program. State policies of favoring home industries must give way when foreign materials are available within the percentage limitations of federal policies.

That administration of the law will be an issue in the next session of congress is almost assured. Rep. William K. Van Pelt of Wisconsin has already announced intentions to seek a tightening up of the law so that federal funds cannot be used to buy foreign materials if US-made products are available.

He wants to close "the loopholes by eliminating language from the present law which enables department or agency heads to make purchases abroad at their discretion."

He has a bill providing that "to the maximum extent practicable the procurement of articles, materials, and supplies by the federal government shall be limited to articles, materials, and supplies domestically produce or manufactured."

Of prime interest to drug manufacturers is a provision of the bill that would delete this language from existing law: "unless the head of the department or independent establishment concerned shall determine their purchase to be inconsistent with the public interest or their cost to be unreasonable."

One of the reasons cited by the military at the Kefauver drug hearings for going outside the United States to buy tetracycline tablets from an Italian producer was the fact that they could be obtained so much cheaper than from any of the domestic sources.

OPD'S BOOKSHELF

Washday Directory

This standard compilation of detergents and emulsifiers* has just been brought up to date in a fifth edition. Here are some 3,000 trade name products manufactured by 250 companies in the US, listed alphabetically for handy reference. Following each item, identified by trade name, is the name of the manufacturer, the chemical class to which it belongs, its composition, its main use, its physical form, the concentration of the finished product, the ionin type, and a brief descriptive remark.

*DETERGENTS AND EMULSIFIERS 1960. 127 pages. John W. McCutcheon, Inc., New York. $3.50.

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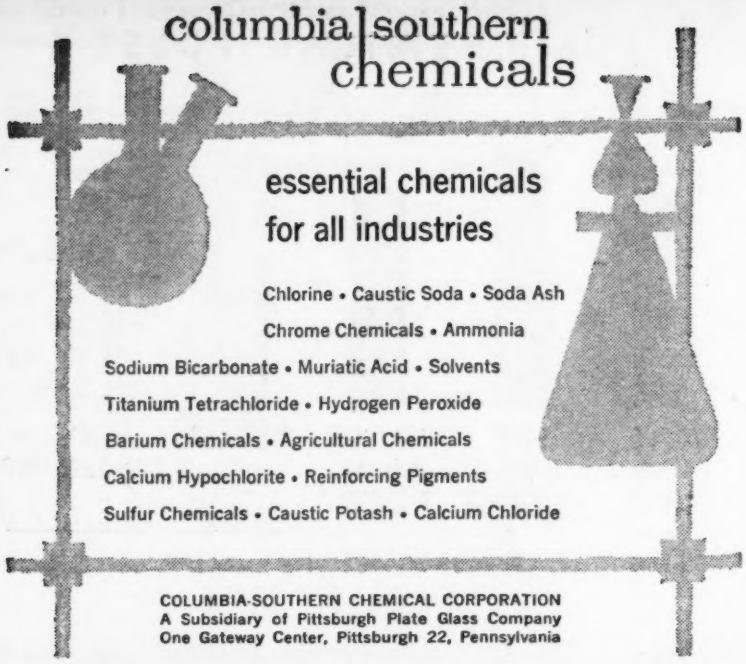

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Chrome Chemicals • Ammonia
Sodium Bicarbonate • Muriatic Acid • Solvents
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Heavy Chemicals

Price changes were the only changes as the heavy chemicals market rounded the third turn that leads into the stretch drive. Hydrous magnesium chloride rose $5 to $12 a ton in line with a long standing announcement. Cost increases in potassium bromate were recouped in a price hike of three and one-half cents a pound. Reacting to a tight market, producers lifted anhydrous sodium sulfate tabs $2 a ton, effective now on spot, November 1 on contract. There were no other changes. Market activity was neither slow enough to be called late Summer stodgy, nor busy enough for early Autumn brisk. But trade sources did descry the faintest quickening of pulse, and this heartened them as they stepped into October.

In nitric acid the beginning of inquiry for the fertilizer season was registered. Chlorinated solvent interest gained a shade in the hydrochloric market. Optimistic automotive prospects lent an air of confidence to chromic acid and sulfuric managed to hold on to its going price rate on the East Coast, where lagging steel business has been a thorn in its side all Summer.

Makers of bases and salts looked stoical as they saw another quarter commence without those much needed price hikes, some several years overdue, which could restore pallid profit margins to robust health. Soda ash and caustic soda, it was recalled, looked like they wanted to advance last Spring. But they didn't.

The American Paper and Pulp Association reported production for the week ended Sept. 24, at 91.6 percent of theoretical capacity, as compared with the revised figure of 93.1 percent for the previous week and 97.1 percent for the corresponding week of last year.

Price Trends

Advanced

Magnesium chloride, hyd., flk., $5 to $12 per ton
Potassium bromate, 3½c. per lb.
Sodium sulfate, anhyd., $2 per ton
Tin metal, Straits, 2c. per lb.
Salts, 2/3c. to 1c. per lb.

Reduced

None

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Oct. 2, 1959
106.86	106.81	106.81	103.56

For Current Prices see page 8

Acids

Boric—Chemical outlets are operating at a fair rate, only a shade less than expected for this early part of the season. Prices remain unchanged at the higher levels posted a year ago June.

Chromic—Prospects in the automobile outlet are excellent, according to current production plans.

Hydrochloric—Chlorinated solvent demand has picked up marginally during the last three weeks, not accelerating quite as steeply as it did a year ago.

Hydrofluoric—Prices are unchanged, business fair, supply adequate.

Nitric—Inquiry for the Fall fertilizer season has started to pick up. Steel outlet is still straggling. Chemical accounts are judged moderate to fairly active. Supply has been kept in balance with consuming needs.

Sulfuric—American Iron & Steel Institute estimates steel output during the week just closed at 1,545,000 net tons, or 54.2 percent of capacity, virtually unchanged from the previous week's actual total of 1,547,000 tons, or 54.3 percent of capacity. A month ago the total was 1,483,000 tons; a year ago, when the big strike was on, it was only 362,000 tons.

Bases and Salts

Aluminum Sulfate—Market is holding up well, thanks to paper industry demand and moderately good activity in chemical accounts, but producers concede that a little more business would not be out of place this time of the year.

Caustic Soda—This item moves into the final quarter with no price advances on the books, despite the upward creep of costs; doing a fair volume of business, though a shade less than what might have been expected a month ago, and with supply in balance.

Chlorine—The present market was found to be nondescript; so producers spoke mainly of the future, first of the immediate future, noting that the material promises to close the year with a reasonable gain over '58 provided that the fourth quarter lives up to expectations; and then of the long range future, pointing out that the rash of plant expansions and new construction for the alkali gives evidence of confidence in an expanding market.

Lead Dioxide—Price levels are unchanged, last advanced September 1.

Magnesium Chloride—Price advances of $5 to $12 a ton for hydrous put into effect on contract October 1, carry the schedule to $60 a ton for carlots, and a range of $75 to $100 for smaller quantities. The carlot quote is up $5. The hikes reflect higher costs and a market situation that makes it possible to offset them.

Potassium Bromate — Under the advanced schedule of October 1, prices are now 49 cents a pound for carloads, 51½ cents for less than carload shipments of 1,000 pounds or more, and 56½ cents for 200 to 800 pound shipments. For 25-pound drums, quotations are 53½ cents for 1,000 pounds or more and 58½ cents for 200 to 975 pounds, and 63½ cents for smaller shipments.

Sodium Sulfate—Anhydrous grade has been advanced $2 a ton, immediate on spot, November 1 on contract, reflecting cost increases and a very tight market.

Soda Ash—Production of synthetic light ash was higher in July, totaling 187,519 tons, as against 184,888 in June; but output of synthetic dense declined to 164,651 tons from 167,961, the Bureau of Census reports.

Sulfur—The following figures compiled by the Bureau of Mines, show production and shipments of sulfur during specified periods:

	June	*July*
Native production	393,931	419,891
Shipments	428,066	408,700
Sales*	419,063	380,215
Stocks†	3,694,746	3,734,422
Recovered production	60,072	63,720
Shipments	61,840	56,901
Sales*	61,874	65,186
Stocks†	110,119	108,653

* Calculated from production and change in stocks during the period.
† Producers' stocks at mines or plants in transit, and in warehouse at end of period.

The following figures, compiled by the Bureau of Mines, show imports of Canadian and Mexican sulfur into the United States during specified periods in long tons.

	June	*July*
Ore	13,805	10,772
In any form	51,086	37,263
Total	64,891	48,035
Dollar Value		
Ore	$296,993	$216,893
In any form	1,072,632	790,276
Total	$1,369,605	$1,007,169

Nonferrous Metals

Aluminum—In line with seasonal trends, aluminum output dipped in August, totaling 172,973 tons, as against 177,564 in July, and 172,817 in August a year ago, the Aluminum Association reports.

Total for the year through August stands at 1,357,890. This compares with 1,294,410 for the comparable period last year. The all-time record month remains July 1959, with 179,194 tons, and the all-time record quarter is the third of 1959 with 520,216 tons.

From Business & Defense Services Administration comes a prediction, based on a recent survey by the government agency, that consumption of super purity aluminum will more than double in the next five years.

Domestic consumption of super purity pig and mill products, according to the survey, increased from 6 million pounds in 1958 to 6.4 million in '59, including consumption by producers in converting pig and ingot into mill products. Consumption by end-use pattern was concentrated in the electronics and petroleum catalyst industries.

Total new supply of the material increased from 6.8 million pounds in 1958 to 7.5 million pounds in '59.

Cadmium-Magnesium—General Services Administration has announced that all bids for the 4,413 tons of demilitarized cadmium-magnesium alloy bomb bodies

Heavy Chemicals

offered for sales under invitation No. DMS-Met-4 have been rejected as inadequate. The bid opening was on September 9; the high bid for all of the material was 11.35 cents a pound. GSA will issue new invitations.

Lime—Lime sold and used in July totaled 896,122 tons, the Bureau of Mines reports. With decreases in all major categories, the figure fell significantly short of June's 994,641 tons.

Included in the total were 665,642 tons of quicklime and 230,480 tons of hydrated.

By category, the figure breaks down to 9,428 tons of agricultural material, 92,295 tons for construction outlets, 671,039 tons for chemical and other industrial uses, and 123,360 tons of refractory material (dead-burned dolomite).

Mercury—In 1959, US production of mercury declined for the first time since 1950. For world output, it was also the first decline in a decade, the Mines Bureau reports.

Increased demands by nearly all principal users caused consumption in the US to rise about 5 percent and to exceed 52,000 flasks for the fifth consecutive year. Imports to this country continued at the 1958 rate of 31,000 flasks.

US output totaled 31,256 flasks, as against 38,067 the year before. World output was 232,000 flasks, down from 251,000 in '58.

Silver—Quotation held at its long standing level of 91⅜c. a troy ounce, spot.

Tin—Price closed at $1.04 a pound, up 2 cents from a week earlier. Stainless steel operations continued brisk.

Chemical De-Inking Coming

—Continued from page 5

are doubtless represented in that narrow but crucial $10 price differential.

The only de-inking plants now in operation turn out book paper. They recover from 35 to 45 percent of their pulp and make up the balance with new material.

Garden State Paper Company, which is handling the Garfield operation for the *News*, plans to market about 90 percent of the plant's anticipated output of 45,000 tons a year. Only the balance would be captively used by the *News*. The plant has been designed to permit rapid expansion to 80,000 tons a year.

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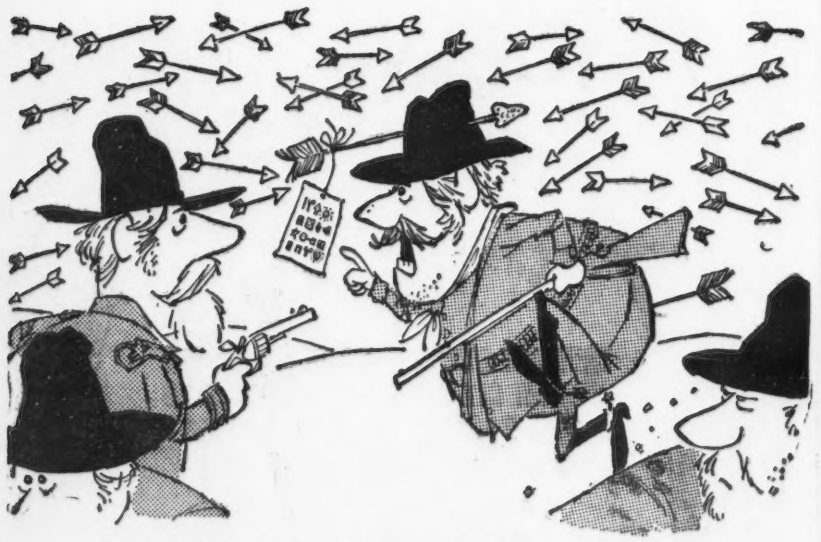

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Grace Licenses Moretex For Two Textile Chemicals

Moretex Chemical Products, Inc., Spartanburg, S. C., has been licensed by W. R. Grace & Co., New York, to produce and market two hydrazinium compounds for use in textile wet processing.

Tradenamed "Aquazine-100" and "Aquazine 88," these will reportedly be the first hydraziniums to be commercially produced for textile application. The former is described as a unique cationic softening agent for all natural and synthetic fibers, and the latter as an anti-static agent for synthetic fabrics.

Chemical Future of Canada

—*Continued from page 4*

ada. Some of these, such as carbon black and sulfur, are currently duty free and the industry asks no change. Only five of the forty-seven exceptions on List 2 carry recommendations for rates higher than the Brussels category under which they are classified, and in these instances the Canadian manufacturers do not believe a 20 percent rate provides adequate protection.

'Not Made in Canada' List

List No. 3 contains exceptions to the basic items because of "not made in Canada status." Listed are some 500 chemicals which are not made in Canada, and existing rates on these range from "free" to 15 percent. The industry simply asks that excepted items be made subject to protective category rates if and when they attain "made in Canada" status.

The fourth list of the proposed schedule consists of three "end-use" categories applying to certain fertilizers and chemicals used in agriculture.

The chemicals industry committee feels the rate schedule as proposed is complete and comprehensive, and that the requests for rate adjustments are relatively few and that because of the limited requests for changes, and the simplified method of presentation, the board's review will be facilitated and concluded somewhat earlier than had been expected.

The foregoing article is based on a paper presented by George Garrett at the eighth annual meeting and conference of the Canadian Agricultural Chemicals Association held recently in Muskoka, Ontario. Mr. Garrett is manager of sales relations for the chemicals and plastics division of Union Carbide, Canada, Ltd.

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Coca-Cola, Minute Maid Merger Okayed by Directors

Coca Cola Company, a major consumer of caffeine and citric acid, has decided to branch out of the soft drink field for the first time in its seventy-five year history.

Directors of the company have approved a proposed merger with Minute Maid Corporation (OPD/12/60), which is a producer of citrus oils as well as frozen juices. Minute Maid's board has also approved the merger.

The companies hope to have the consolidation in effect by December 31 following stockholder meetings which will be held sometime that month.

Agricultural Potash

—Continued from page 4

poses amounted to 82,439 tons K_2O, an increase of 10 percent over last year.

Total deliveries for all purposes were 2,865,261 tons for salts containing an equivalent of 1,689,298 tons K_2O, an increase of nearly 18 percent in salts and K_2O.

During the second quarter of 1960, deliveries for agricultural purposes were 845,239 tons K_2O in continental United States, 39,183 tons in Canada, 10,286 tons in Cuba, 15,525 tons in Puerto Rico, and 6,681 tons in Hawaii, making a total of 916,914 tons K_2O, an increase of more than 28 percent over last year.

Included in these figures are imports of 150,697 tons K_2O for the first six months of the year. Exports of potash to other countries during the second quarter were 69,111 tons K_2O, an increase of 14 percent over last year.

Deliveries of potash for non-agricultural purposes were 44,053 tons K_2O, an increase of 13 percent. Total deliveries for the quarter including imports for the first six months, were 1,741,919 tons of salts containing an equivalent of 1,030,078 tons K_2O, an increase of more than 26 percent in salts and K_2O over last year.

Miles Citric Acid Unit

—Continued from page 3

pioneered the process and uses it exclusively.

Half of the plant's output is slated for internal consumption with the balance available for export. The facility has been designed for ready expansion into related products. A share of the financing for it was secured through a loan from the Israeli government. Amount of the loan was not disclosed.

As a soft drink component, citric acid has a big future in Israel's hot climate, a spokesman for Miles says. In addition, the company anticipates an increasing market in such industrial applications as oil drilling, cleaning of power plant equipment and metal polishing.

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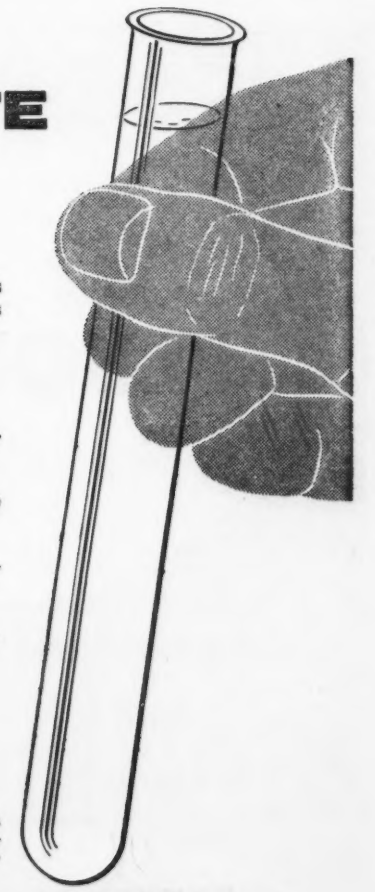

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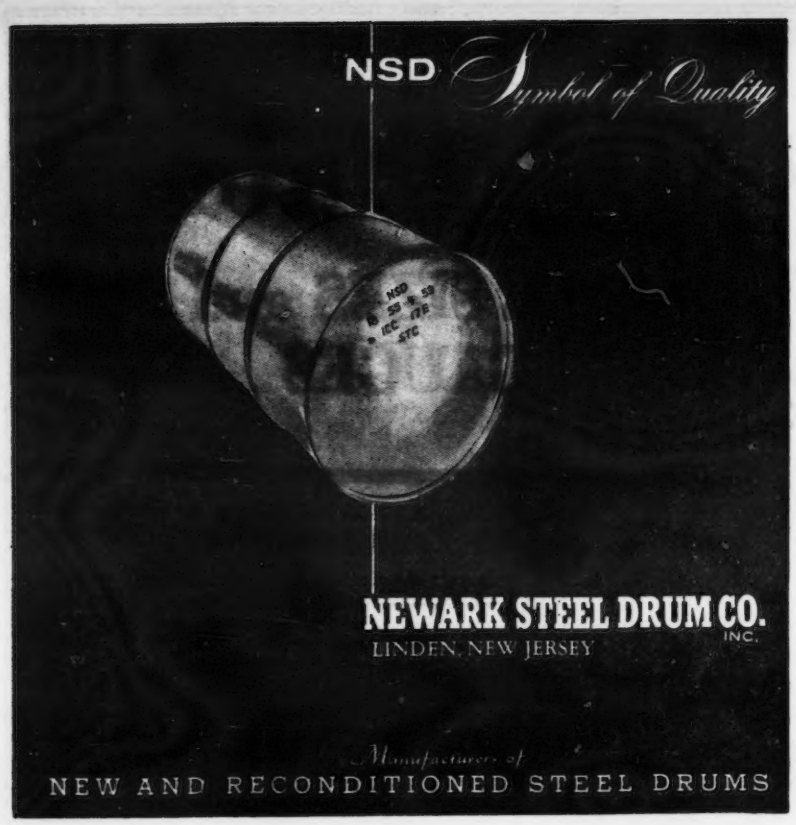

St. Joe, Mo., in the Soup Because of Water Pollution

The federal government brought suit last week against the city of St. Joseph, Mo., for continuing to pollute the Missouri River with untreated industrial wastes and sewage.

The suit is the first instituted under the enforcement provisions of the federal water pollution control law and climaxes three years of effort by the government to bring about some cooperative action upon the part of the municipal authorities to correct the problem.

The suit asks the federal district court at Kansas City, Mo., to enjoin the city of St. Joseph, its officers, agents and employees "and any and all persons in active concert or participation with them from discharging sewage and industrial and other wastes into the Missouri River either directly or indirectly, without proper, adequate and effective treatment."

Additives Must Be 'Hot'

—Continued from page 3

about "prior sanctions" had lulled industry into a false sense of security on the problem of migrating substances.

"When it became necessary to define exactly what migratory substances are and how much migration would be permitted, Dr. Morgareidge went on to say, "difficulties arose and we don't have the answers yet, although we are making progress."

Right now, he noted, only 100 petitions have been officially "filed," another 100 have gone through the clearance process, and some 1,800 are still in various stages of processing.

For manufacturers who haven't submitted petitions yet, Dr. Morgareidge suggested "omnibus" petitions as a possible way to beat the bind. But while this method will help, he said, it won't be quick enough to solve the problem, unless FDA asks congress for another time extension.

There has been no official support for this from FDA, he reported, but some officials of FDA confided that they would like to see it. Extensions, however, were held unlikely for compounds on which no work has been started.

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Petroleum Derivatives

The basic pattern of market conditions for petroleum derivatives continued unchanged last week as reported by trade sources. In aromatic solvents benzene remained in tight supply with premium prices applying to export and spot purchases. Interest in toluene continued to recede as producers found benzene output more profitable. Xylene was quiet reflecting industrial conditions. Waxes in the domestic area were firm while in the Caribbean two dictatorships, one of the left and one of the right, continued to find suppliers of wax products they needed.

Tariff Commission report for July reveals benzene production down 3.4 million gallons, or 10 percent, from June. Toluene and xylene both showed an increase in production.

Petroleum remains the major source of aromatic solvents with benzene from petroleum registering 69.5 percent of the total produced, toluene from petroleum 90 percent and xylene from petroleum (including tar distillers) 98 percent.

While petroleum predominance is significant it must be remembered that this oil hegemony is aided by the sluggish steel rate which keeps cokeoven output at a limited amount.

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Oct. 2, 1959
103.74	103.74	103.74	103.04

For Current Prices see page 8

Aromatic Solvents

Benzene—Tigh supply reigns.

Contract price remains firm with spot and export quotations tending to be higher when material is available.

Tariff Commission statistics for July shows benzene production down 3.4 million gallons from June. Reason is thought to be lack of proper feedstocks. Many of the oil producing states operating under a quota system started restricting crude output in late spring and the effects are thought to be expressed in reduced benzene production for July.

Production of benzene in July according to the Tariff Commission totaled 34,535,135 gallons, a decrease of 3,355,079 gallons from the previous month.

By source production in July was—from petroleum processors—24,040,602 gallons, or 69.5 percent of the total, a decline of 1,520,601 gallons from June. From cokeoven operators—9,373,343 gallons, or 27.3 percent of the total, a decline of 1,639,618 gallons from June. From tar distillers—1,121,190 gallons, or 3.2 percent of the total, a decline of 194,860 gallons from the previous month.

Total production for the year through July from all sources was 256 million gallons plus. Projecting the rate of production maintained in the first seven months of the year, an annual total of 438 million gallons for 1960 from all sources is computed. Preliminary total for 1959 as estimated by Tariff Commission was 330 million gallons.

Petroleum's share of benzene production last year: An estimated 191 million gallons.

For 1960: A projected total of 295 million gallons, based on output through July.

Next year: Enigma. Avalanche of production facilities due to come on stream in '61 has some trade observers cautiously noting that overcapacity may be a factor to reckon with in estimating market trends. In connection with this it has been noted recently that demand for styrene, for which benzene is a prime building block, is tapering off to a less phenomenal rate of growth. The question in many minds is whether all the benzene capacity due will (1) actually come on stream and (2) will it all find a market?

Toluene—This solvent continues to find less favor with producers. Suppliers are quite frankly concentrating on benzene production and letting the toluene market take care of itself as best it can. Needless to remark the higher prices garnered by benzene have much to do with this decision.

Toluene production in July totaled 24,652,880 gallons, an increase of 3,401,866 gallons from June according to the Tariff Commission.

Production by source was—

Petroleum—22,041,982 gallons, an increase of 3,678,347 gallons from June.

Cokeovens—2,296,998 gallons, a decrease of 229,228 gallons from the previous month.

Tar distillers—313,900 gallons, a decrease of 37,253 gallons from June.

Xylene—Production of xylene in July totaled 28,368,931 gallons, an increase of 2,166,254 gallons from June.

Petroleum processers and tar distillers supplied 27,694,900 gallons, an increase of 1,969,610 gallons from the previous month.

Increase in production reflected in July Tariff Commission report is the result of increased demand for the ortho and para fractions according to one trade source.

Market for xylene itself recently has been relatively quiet and uninspired simulating industrial production activity in general.

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended Sept. 17 totaled 229,943,000 barrels, according to data reported by the Bureau of Mines. Compared with the total of 227,787,000 barrels for the preceding week, this represents an increase of 2,156,000 barrels, comprising a decrease of 143,000 barrels in stocks of domestic crude and an increase of 2,299,000 barrels in stock of foreign crude.

Waxes

News of the Caribbean wax market reached New York trade circles last week.

Despite the recent diplomatic sanctions imposed upon the Dominican Republic by the Organization of American States, trade sources reveal that US exports to the island republic continue as usual without any significant interruption. Only real change has been that import licenses are now required by Dominican trade officials for certain products, including wax, which did not require them before the OAS rebuke.

In another area of the Caribbean the limited wax needs of Cuba along with other oil supplies are being met with shipments from the Communist bloc. In the case of waxes, Czechoslovakia is the source, according to trade reports, as Cuba itesIf does not have a wax refinery.

Unconfirmed comments from one trade source, which must be placed in the category of rumor for the present, indicate that some wax from the US is reaching Cuban ports to join Communist material in supplying the island's economy.

Miscellaneous

Reports from a trade source indicate firm market conditions existing for white mineral oil and petrolatum.

Of the two, demand appears to be greater for petrolatum, particularly white grade. Some consumers attempting to fulfill quotas have been subject to shipping delays. Reason for this is the high demand which has been prevalent throughout the world market for most of the year.

Most of material winds up in cosmetic applications and the pharmaceutical field. One producer contacted last week commented that although cosmetic formulators are aware in the midst of preparing for the Christmas sales bonanza, this seasonal high demand is expected by producers and they are ready to supply needs.

One note of interest concerns the origin of white mineral oils.

Unlike the telegraph, telephone, television, wireless, locomotive and motherhood, white mineral oil really does seem to have been developed by a Russian. A Russian chemist in 1887 first accomplished the refining of white mineral oil from crude oil. Eight years later another Russian chemist, employing crude oil then the only crude available in Europe, succeeded in developing a commercially successful process. The first refinery was constructed at Riga, now the capital of the Latvian SSR. Because of these early associations white mineral oil long was termed "Russian Oil."

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Aliphatic Organics

October 1 price activity was limited to one change. Technical trichloroacetic acid was advanced 2 cents a pound across the board, making the drum carload listing 52 cents a pound, f.o.b. works. Prior to this, reductions were posted for crude glycerine, acrylic acid, acrolein, vinyl acetate monomer and, in midsummer, acetone. With the prevalent trend downward, none of the trade were surprised with the lack of fourth quarter advances. Most maintained, however, that there are many areas where costs have seriously diminished the profit return. Acetone was cited but few but the wishful thinkers anticipated a price increase in light of the recent market debut of a new producer and its 100-million-pound-per-year plant.

No one's mentioning that "dirty" word, recession, out loud, but several trade sources do admit to less optimism for the fourth quarter. Not only are such developments as the decline in stock prices and the continued low rate of steel production discouraging, but a more immediate factor, the reluctance on the part of purchasing agents to buy ahead, indicates that there could be rough days for business coming.

Requirements for organic chemicals were up to par through July, most of the market observers report, but they found a slackening off in August and a continued slow pace in September.

Stocks of crude and synthetic glycerine at the end of July totaled 47 million pounds, up from 46.9 million the previous month. This reflected a decline in disappearance that was not completely offset by the drop in production and the rise in exports.

Alcohol—The long search for a substitute for brucine for use in denaturing alcohol has come to an end. A firm in Scotland, through its US representative, is now offering a synthetic organic chemical called "Bitrix" which does the job.

As luck would have it, the market debut of the "replacement" comes at a time when both brucine and quassin are adequately available. In fact, indications are that some manufacturers of SD-40 have very ample supplies of the alkaloids and thus find it somewhat difficult to be very enthusiastic about "Bitrix." This is in marked contrast to the feeling that would have greeted the introduction of the synthetic material a year or so ago. At that time, brucine was hard to find and quassin was just beginning to come into ample supply.

Reports have not yet been received from all the major producers of SD-40 but one firm told OPD last week that it will leave the preference of denaturant up to its customers. A company spokesman thought there would be no big switchover to "Bitrix." He said his own view was that "Bitrix" would serve as a hedge against potential shortages of brucine.

A second-hand report, still unconfirmed, found one big manufacturer of SD-40 deciding against the use of "Bitrix" for the time being.

Beta-Propiolactone—Just reduced, prices for beta-propiolactone (BPL), technical, range from 45c. a pound in tankcar or tanktruck; 47.5c. a pound in carload or truckload; and 48.5c. a pound for lesser quantities, f.o.b. shipping point.

Technical BPL is designed for use as a chemical intermediate only. Potential applications include paints, textiles, detergents, lubricants, adhesives and starches.

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Oct. 2, 1959
131.20	131.20	132.09	130.47

For Current Prices see page 8

Di-functional and highly reactive, BPL reportedly is an ideal starting material. BPL reactants are wide-ranging and embrace alcohols, amines, sulfur compounds, organic acids, and water. Products include vinly-type monomers, esters, amides, and mercapto compounds.

Ethanolamines—Of the sixteen major organic chemicals for which the Tariff Commission issues monthly production statistics, only one made a marked upturn in July. Ethanolamine output that month was 12,648,083 pounds, against 8,816,407 pounds in June. These figures include mono-, di-, and triethanolamine but it's likely that diethanolamine represented the largest percentage of the almost 4 million pound increase.

Diethanolamine has found a large and expanding market in liquid detergents, sales of which are expected to hit 620 million pounds this year. Considering that sales five years ago were only 150 million pounds, it is easy to understand the growth in consumption of diethanolamine.

Ethylene Glycol—Exports of ethylene glycol in July were 10,101,932 pounds, valued at $1,042,712. Major shipments went to: Belgium 6,165,867 pounds at $576,293; Canada 2,591,739 pounds at $317,643; Australia 360,366 pounds at $40,704; and Mexico 121,524 at $16,702.

Glycerine—The Glycerine Producers' Association has sent us a report on glycerine and one of its major markets, cellophane, which we gladly excerpt below.

Sales of cellophane have risen steadily to a whopping 436 million pounds in 1959. Representing 59 percent of today's packaging film market—its nearest competitor is polyethylene with 34 percent—cellophane is now available to converters and packagers in over 100 types.

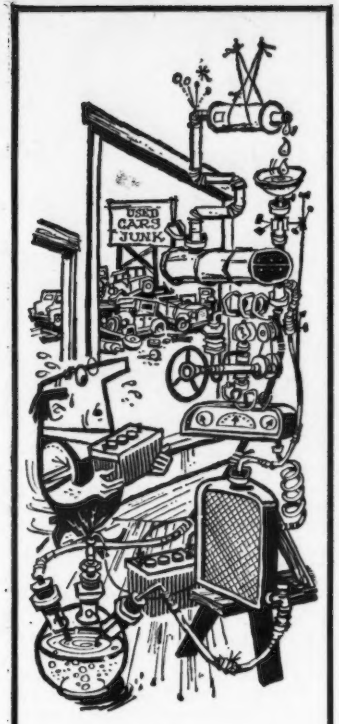
A substantial proportion of cellophane contains 10 percent or more glycerine. Based on last year's production, US cellophane producers incorporated over 40 million pounds of glycerine as plasticizer in their total cellophane output.

A scientific curiosity less than 40 years ago, cellophane was the brainchild of Dr. Jacques Brandenberger, a Swiss textile chemist, who sought to develop a cellulose solution for treating tablecloths so as to make them impervioous to dirt and stains. Finding this idea impractical, he then made a thin sheet of film and applied it to the cloth. This also was unworkable, so Brandenberger abandoned the tablecloth project and began concentrating on the film which appeared to have many commercial possibilities. By 1911, he had designed a machine to produce this film

Organic Chemicals Output: July

The following figures, in pounds, represent output of specified organic chemicals in June and July, 1960, as reported by the Tariff Commission.

	July	June
Acetic Acid:		
Synthetic	69,039,338	63,710,346
Natural (wood distillation)	2,126,000	2,134,000
Acetic anhydride	88,702,519	94,200,281
Acetone	62,442,804	66,145,114
Acrylonitrile	19,695,265	19,436,085
1,3-Butadiene (rubber grade)	161,243,882	160,746,798
Carbon disulfide	46,016,208	47,273,196
Carbon tetrachloride	34,937,414	32,284,403
Ethanolamines (Mono-, di-, and tri)	12,648,083	8,816,407
Ethyl acetate (85 percent)	7,648,369	7,705,147
Ethylene glycol	112,628,541	100,625,754
Formaldehyde (37 percent by weight)	110,367,043	143,937,706
Methanol:		
Synthetic	167,992,318	143,777,903
Natural (wood distillation)	1,241,680	1,321,360
Pentaerythritol	3,953,449	5,304,381
Perchloroethylene	17,969,576	17,474,142
Propylene glycol	13,139,002	15,116,358
Trichloroethylene	28,369,728	26,786,954



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Aliphatic Organics

which he called cellophane. Production got underway in France and in 1924 a leading US firm acquired the rights to produce it in this country.

The first cellophane produced in the US was not moisture-proof, wrapping with it was a hand operation and it was expensive—$2.65 a pound. Total production for the year 1924 was 541,094 pounds.

Between 1924 and 1939, however, increased production and improved technology made possible twenty-one successive price reductions. In 1939, cellophane reached its lowest per pound price of 40c. Since then, rising costs of labor and raw materials have increased the per pound price to approximately 62c. a pound for the most commonly used types.

The major technological advance in cellophane's growth was the introduction of moisture-proof cellophane in 1927. Applying transparent coatings of nitrocellulose and wax to both surfaces of the base sheet opened vast new potential markets in food and tobacco products packaging.

Heat-sealing cellophane was debuted in 1932 and two years later, the first anchored types in which the coatings were firmly bonded to the base sheet to withstand high humidities and even direct contact with water. Self-service merchandising which would not have been possible without a satisfactory transparent packaging material received great impetus from this development.

From the very beginning, glycerine was incorporated as an essential ingredient in the formulation of cellophane. The film remains a major market for the polyol.

Cellophane usage is expected to hit 600 million pounds by 1970 and keeping pace will be glycerine.

Molasses—Markets for feeding cane molasses were steady during the week ended September 27. Demand was slower in the Gulf and Midwest than a week ago, but moderate to good in other parts of the nation. Trading was seasonally about normal, Agricultural Marketing Service reported.

New Orleans prices held unchanged at mostly 11.5c. per gallon. Texas port prices were unchanged to ¼c. lower, but St. Louis prices dropped ½c. per gallon.

Pentaerythritol—PE production dropped to 3.95 million pounds in July from a monthly average of about 5.4 million pounds in the first half of the year. The decline probably represents a seasonal adjustment in keeping with reduced requirements normally expected in late summer.

Until statistics are available for August, it will be difficult to say whether PE output will approach the 1959 high of 64.1 million pounds.

Sucrose—This year's domestic sugar cane crop is making above-normal growth for this time of year. Recent trade reports indicate that damage to Florida's crop by Hurricane Donna was not severe. Louisiana's crop is later than usual but is in good condition. Harvest of sugar cane is expected to start in about one month in both Florida and Louisiana.

Trichloroacetic Acid—Prices were advanced 2 cents a pound to contract customers on October 1. The changes were made on spot some weeks earlier.

For technical trichloroacetic acid, the new carload price is 52c. a pound, the less carload 54c. a pound. A single 100-pound drum lists at 57c. a pound. All prices are f.o.b. works.

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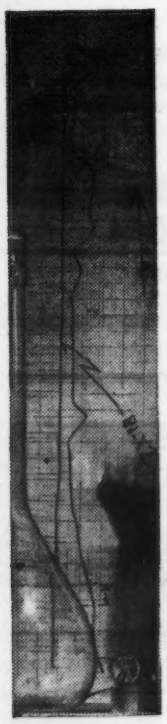
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An order of Food & Drug Administration for certification of these products grows out of disclosures that some of the discs checked by FDA agents failed to have enough of the various antibiotics to be effective or useful.

FDA's order becomes effective in ninety days unless suspended for hearings on legal questions involved.

Nicaro Nickel Works Shut

—*Continued from page 3*

fer of $5,386,000 was so ridiculously low to bring in the question the good faith.

Also attached to the offer were conditions that would have required the US to purchase a specified amount of the output of the plant at a price in excess of the world market price.

Government officials have also let it be known that other economic moves against the Castro regime are under consideration. Orders are being readied tightening up on exports of a number of commodities important to the Cuban economy. First to be hit probably will be replacement parts and catalytic powder for the American petroleum refineries seized recently by Castro.

In anticipation of further annoyance of Americans stationed in the island republic, the State department is urging businessmen and others to get their wives and dependents out of the country as quickly as possible.

HANDLING SELLING JOB: E. L. Bullington, appointed director of sales for the new Syntex Laboratories Division of Syntex Corporation.

Cottonseed, Soybean Oils To Pakistan, China, Spain

Pakistan, Nationalist China and Spain have agreed to buy upwards of $23,442,200 worth of cottonseed or soybean oils from US suppliers under public law 480, according to the Department of Agriculture.

Authorizations issued last week by USDA provide for purchase of about 22,300 metric tons of oil by Pakistan, 1,450 tons by China and 73,500 tons by Spain.

The sales contract period runs from October 5 through February 28 in the case of Pakistan and China and to November 30 in the case of Spain.

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Agricultural Chemicals

Invitations for DDT needed by the International Cooperation Administration for its anti-malaria program are reported to be in the last stages of preparation. ICA, working through the General Services Administration, is expected to call for about the same quantity of DDT as last year. In 1959, the first purchase of DDT amounted to 56 million pounds, the total over the 60 million pound mark.

Last year, the bulk of the DDT went to India, with the reported schedule calling for a similar amount slated for India this year. In 1959 India received 39.5 million pounds, of which 2.5 million pounds were purchased against 1961's allowance. This year India should receive 37 million pounds. Other countries' requirements last year were: Brazil, 2.5 million pounds and Indonesia, 4.5 million pounds.

Prices advances that went into effect on October 1 included the following items: Anhydrous ammonia, $8 per ton; ammonium nitrate, $3 per ton; direct application type nitrogen solutions, $6 per ton and potash sulfate, 5 cents per unit-ton.

A leading fertilizer producer has announced plans to invest $20 million to $30 million in the construction of facilities in Utah to develop its rich potash reserves. According to the company, core drilling has been completed and reserves have been found that reportedly are richer than any others known to exist in the US.

A spokesman for the company said that recommendations will be made to authorize a diversification into potash if studies nearing completion reveal as favorable results as has been evidenced by earlier interim reports.

The producer indicated that a plant might be built with a capacity of 10,000 tons a day to process potash. To date the company has spent more than $500,000 on its evaluation of the deposits at that site.

Animal and Plant Foods

Ammonia—The new price that went into effect on October 1 calls for an $8 per ton on anhydrous ammonia. This brings the current listing up to $92 per ton, and is scheduled to remain in effect until July 1, 1961.

Also going into effect on October 1 was a new price for anhydrous ammonia used in metal treating and refrigeration. Listings, previously announced, make the latest price for this grade of anhydrous ammonia $94.50 per ton ton. Old price had been $86.50.

Ammonium Nitrate—According to several previously announced price schedules, the new price for ammonium nitrate is $67 per ton, or $3 per ton higher than the old price. The new listings that went into effect on October 1 will remain in effect until December 31. From January 1, 1961 through July 1, 1961 the listings call for a price of $70 per ton. Schedules indicate that for 50 pound bags an additional charge of $1.50 is added; for bulk shipments $6 per net ton is deducted.

Ammonium Phosphates—During July, the output of ammonium phosphates was estimated by the Bureau of Census at 18,620 short tons, down from the previous month's total of 22,101 short tons. For July of last year, production was reported at 16,053 short tons.

Shipments during July totaled 14,615 short tons, again below the previous month's shipments but above the amount shipped during the same month last year. June's shipments totaled 15,573 short tons, while July, 1959 saw 8,543 short tons shipped.

Pesticides Output

Following are production statistics reported by the Tariff Commission representing the number of pounds of certain pesticides produced during July, 1960, with June's production figures supplied for comparison:

	Pounds	
	June 1960	July 1960
DDT	12,464,458	13,531,409
2,4-D*	*2,274,368	*2,787,482
Ester & Salts	*3,719,501	*1,847,844
Acid equivalent	*2,759,454	1,269,468
BHC	1,520,520	1,589,670
Gamma isomer	510,419	514,761
2,4,5-T	*617,723	*499,135

* Partly estimated.

Price Trends

Advanced

Ammonia, anhyd., $8 per ton
Ammonium nitrate, $3 per ton
Nitrogen solutions, direct application, $6 per ton
Potash sulfate, 5c. per unit-ton

Reduced

None

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Oct. 2, 1959
111.26	110.10*	110.10*	110.66

* Revised

For Current Prices see page 8

Stocks on hand at the end of the month were reported at 26,796 short tons. At the end of June, stocks of ammonium phosphates totaled 23,207 short tons. For July of last year stocks stood at 22,859 short tons.

Nitrogen Solutions—Current listings for manufacturing type nitrogen solutions call for a price of $125 per ton, and is effective until December 31, 1960.

Nitrogen solutions used in direct applications was boosted $6 per ton to $164 per ton as of October 1. This listing is scheduled to remain in effect until July 1, 1961.

Animal Proteins—Production of tankage and meat meal during October-June, 1959-60 totaled 1,225,000 tons, or 14 percent more than in the same period of 1958-59, according to the report Feed Situation, put out by the Agricultural Marketing Service of the US Department of Agriculture.

Domestic production, together with the small quantity imported, gave a total of 1,231,000 tons available for feeding in this country during the 9 months. The total was 145,000 tons more than was available a year earlier.

Fishmeal production and imports, however, were down sharply from the high level of 1958-59. Production and imports during October-July totaled 299,000 tons, or 20 percent less than in the same period last year.

In another USDA report, the production of fishmeal through April was reported at about 12 percent lower than during the first four months of 1959. The production peak will occur, according to USDA, in the third quarter and together with large carryovers from the previous year, could create an unsettled marketing situation.

Imports of fishmeal through April were about 38 percent below those reported for the same period last year. Much of this decline is attributed by the USDA to heavy reductions in imports from Canada and 'other countries.' There were no receipts from Angola which at this time last year had shipped almost 20,000 tons.

Urea—Total primary urea production in July hit 88,965,733 pounds, according to reports supplied by the Tariff Commission. For June, the output of urea was 82,487,281 pounds. No statistics are available for the level of stocks for either June or July.

Pesticides

Technical assistance by the US in insect survey and detection programs is being made available to several countries of the Middle East, South Asia, and Africa, reports the US Department of Agriculture. Work done in these countries to catalogue crop-damaging insects is expected to aid plant-protection efforts around the world.

More knowledge of the appearance, habits, and damage inflicted by foreign insects will help ARS plant quarantine workers keep these pests out of the US. The work is expected to aid the US insect detection workers in finding such pests should they manage to get into this country. Such information would help entomologists everywhere to develop improved control and eradication methods.

US technical assistance in insect control began in 1951, in areas around the Mediterranean with emergency assistance in combating swarms of locusts. It was applied to control of other insects pests in 1954. In 1957, the plan was broadened to include more basic, long-term aspects of plant protection.

Trade Name Chemicals & Specialties

Two major outlets for sizing materials are in the paper and textile industries. In both of these fields sizings may be broken down into two basic types, according to the application. In the paper industry some procedures call for surface application of a sizing material to impart certain desired characteristics. In other cases, beater application is used. By the same token textile consumers utilize both warp and finish sizings. In any case, the overall aim in both industries is the same; to improve or increase strength, stiffness, smoothness or weight of the end product whether it be a fabric or a paper stock.

In addition to the natural outlet for flame retardants for wood treatment, an active market for these compounds has grown up in the plastics and resins industry. This outlet can be expected to increase in importance with the advent of new plastic systems which are utilized at high temperatures. The major stumbling block in the development of flame retardants for such plastics as polyethylene is that the highly effective halogen and phosphate retarder compounds show poor compatibility with this polymer system.

The textile industry, although it is a smaller outlet, does use flame retardant compounds of ammonium salts, halides and phosphates. The search in this area has always been for a flame retardant compound which would be completely durable on laundering without weakening the fabric on which it is used.

• W. R. Grace and Co., has licensed Moretex Chemical Products, Inc., Spartanburg, S. C., to produce and market two hydrazinium compounds for use in textile wet processing. The compounds, designated **"Aquazine 100"** and **"Aquazine 88,"** may be used in the same textile processing systems and function as a cationic softening agent and an antistatic agent, respectively.

• Michigan Chemical Corporation reports a 25 cent a pound reduction in the price of **"Firemaster BP4A"** in commercial quantities. Chemically, tertabromobisphenol-A, the product finds application as an intermediate in the synthesis of flame retardant epoxy resins.

• A. E. Staley Manufacturing Company is turning out a new series of cold-water-soluble dextrins for adhesive applications. Marketed under the tradename, **"Koldex,"** the products are made by formulating regular specification dextrins with borax, preservatives and defoamers into a prepared liquid adhesive which is then spray dried.

Flame Retardants

A number of chemical companies market flame proofing compounds for applications in the textile industry. The range of these products is necessarily wide since a substance effective with one type of fiber could prove less effective or completely ineffective with another fiber.

For example, Apex Chemical Company, Inc., Elizabethport, N. J., manufactures **"Flameproof 290"** and **"XWX,"** both of which are effective on rayon and cotton or on blends of the two. **"Flameproof 370"** is suggested for use on acetate, and other compounds in the line are recommended for specific textile fiber applications. The series, generally speaking, consists of ammonium salts, but Apex also markets some halides and phosphate compounds for flame proofing applications in the textile field. Prices range from 20c. to 25c. per pound.

A big need in the textile outlet has always been for a flame retardant that would be completely durable even after repeated laundering. The Department of Agriculture has had some success in this area, but materials developed to date are only suitable for use on tenting or other military goods.

A significantly larger volume of flame retardant chemicals moves to the plastics industry. Where the textile trade has sought a durable flame retardant, chemical men in the plastics industry have been even more anxious for development of a flame proofing compound which would be compatible with plastic systems such as polyethylene, polypropylene and nylon. Polyethylene makers, who could best utilize an effective flame retardant, find that this polymer shows poorest compatibility with the most highly effective flame retardants of the halogen-phosphate type.

High-purity antimony oxide, such as Metal & Thermit's **"Thermoguard"** products, are best utilized in chlorine-containing compounds where they may function as pigments and flame retardants at the same time. Best success to date is reported with vinyl resins. For finished products which are meant to be opaque, M&T makes a high-hiding power compound, **"Thermoguard H,"** and for a clear, finished product, **"Thermoguard L"** is recommended. The importance of the **"Thermoguards,"** the company reports, is that they are closely controlled from lot to lot so that hiding power (tinctorial strength) does not vary. This is not true of all antimony oxide. If there was a variation between batches, a consumer would have to keep altering his pigment formulation with subsequent loss of time and money.

The **"Firemaster"** products of Michigan Chemical Corp. vary in bromine content from approximately 55 percent to 82 percent. **"Firemaster T23P,"** formerly called **"Tris,"** moves in largest volume, the company reports, and material is available in 5,000 to 30,000 pound lots at prices ranging from 80c. to 95c. per pound, as to quantity.

The company also says there is an increasing amount of interest in **"Firemaster BP4A,"** which was reduced in price from 90c. to 65c. a pound for commercial quantities last week. The material has found extensive use as an intermediate in the synthesis of flame retardant epoxy resins and it is hoped that the reduction will encourage further plastics use of this product. Relatively high prices have tended to curb the use of halogen and phosphate flame retardants in applications other than resin manufacture.

WHAT'S REPORTED ON HERE

Though coverage in the Trade Name Chemicals & Specialties market report encompasses twenty classes of chemicals, only a few of them are mentioned in this issue. Here's the entire list:

Adhesives, antibacterials and fungicides, antifoaming agents, antioxidants, antistatic agents, blowing agents, catalysts and accelerators, chelating agents, chemically processed oils, emulsions and latexes, enzymes, fatty acid derivatives, feed supplements, filtering materials, ion exchange resins, surfactants, synthetic waxes, textile chemicals, thickening and suspending agents, and ultraviolet absorbers.

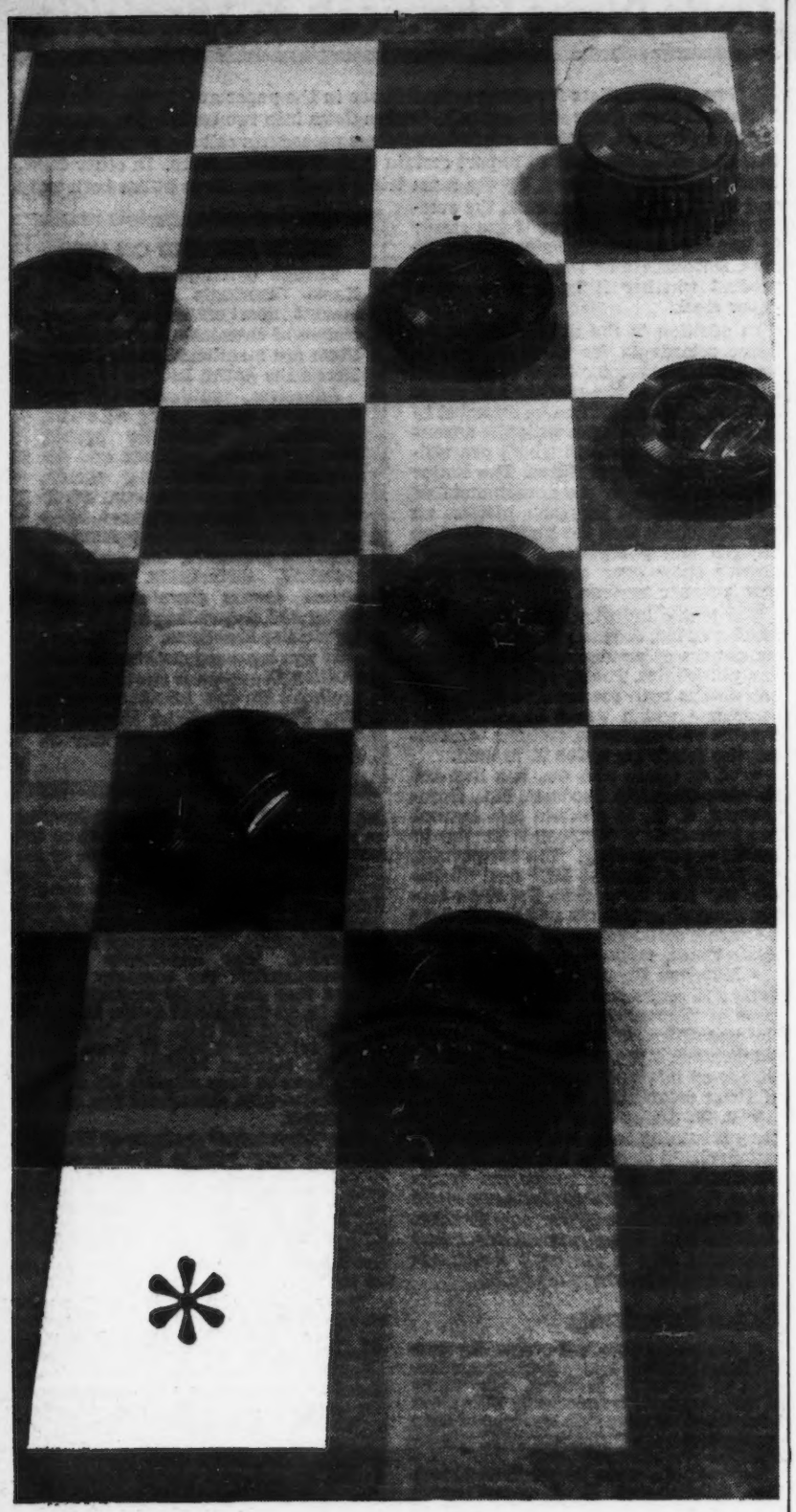
If you have suggestions for any additional materials that might be included in this section write OIL, PAINT AND DRUG REPORTER's Technical Editor, 30 Church street, New York 7.

Ion Exchange Resins

Ion exchange materials used in water treatment have continued to progress in the direction of improved stability and performance characteristics. Gel zeolites were used for several years, but they were limited to use on cold waters of favorable silica content. As inorganic silica compounds they were not affected by oxidizing agents such as chlorine and oxygen. Phenolic cation exchangers were considered an improvement by offering more operating capacity, but proved to be unstable in alkaline waters containing chlorine. The development of still higher capacity styrene type cation exchange resins soon followed and these resins have proved relatively stable at high temperatures. More recent materials are higher crosslinked cation exchangers for use where certain oxidizing conditions cause degradation of the standard resins at a rate limiting their usefullness.

Many materials act as ion exchangers for purifying water. Wool, cellulose, silk horn and humus coals have all been used. Even the ground acts as an ion exchanger, purifying water so completely that pure water can be taken from a well only a short distance from a polluted area. However, a technological breakthrough that led to development of modern ion exchangers came with the discovery that

—Continued on page 49



*

some moves are obvious,

like Koppers adding Halowax®

Koppers, long an important factor in coal chemicals, last year acquired the plant and products of the Halowax Division, Union Carbide Corporation, at Wyandotte, Michigan. These products include chlorinated paraffins, and chlorinated naphthalenes and other chloro-aromatics, for most of which Koppers supplies the raw materials. These Halowax products have a host of applications where their chlorinated structure proves valuable. For a complete listing and more product information, write Koppers Company, Inc., Tar Products Division, Pittsburgh 19, Pa.

KOPPERS COAL CHEMICALS

Coal Chemicals

On October 1 higher prices became effective on contract sales of: diphenylamine (1c.); dodecylbenzene (½c.); dodecylphenol (½c.); h-acid (10c.); nonylphenol (½c.); octylphenol (½c.); a-picoline (one producer—3c.), and tobias acid (3c.). Styrene monomer, tech., 99.2 percent, advanced 3/10th of a cent across the board also effective October 1. Price is escalated for each calendar quarter on the basis of the cost of benzene and petroleum refining labor. New price for tanks is .1254 cents per pound. Price of phenol, natural and synthetic, continues to show a spread as sales to resin manufacturers are being made at a cent less than to other consumers. Most producers don't find the situation a comfortable one but remain intent, nonetheless, on maintaining a competitive posture.

The prevailing influence upon the market continues to be lagging coke-oven output of basic materials.

Steel rate, once again in the fifties last week, shows little sign of attempting to reach higher ground. Some encouragement is offered by the fact that steel consumption continues at a high volume which in time should deplete inventories and cause heavier ordering from the mills than now being experienced.

Tariff Commission production figures for July show production of aromatic chemicals down from June's totals except for monochlorbenzene, toluene and xylene. Toluene jumped 3.4 million gallons from June on the strength of increased production from petroleum sources as cokeoven supplies fell off from June. Xylene output was 2.1 million gallons higher in July due to increased demand for ortho and para fractions.

Some of the more significant decreases in production occured in:

Dodecylbenzene — down 13.7 million pounds.

Phenol, tech. and USP—down 5.3 million pounds.

Benzene—down 3.4 million pounds, 1.6 million gallons of which was the result of reduced cokeoven activity.

Aniline—down 3.1 million pounds.

Styrene monomer—down 2.9 million pounds.

Phthalic anhydride—down 1.4 million pounds.

Surprisingly enough despite the 10 percent cut in benzene volume naphthalene production held almost even with the previous month's output at 42.5 million pounds.

The American Iron and Steel Institute estimated that steel production in the week ended September 25 would amount to 54.2 percent of theoretical capacity equivalent to 1,545,000 net tons of steel. Output in the week previous was 1,547,000 tons, 1,483,000 in the comparable week one month ago and 362,000 net tons in the corresponding week one year ago.

Price Trends

Advanced

Diphenylamine, 1c. per lb.
Dodecylbenzene, ½c. per lb.
Dodecylphenol, ½c. per lb.
H-Acid, 10c. per lb.
Nonylphenol, ½c. per lb.
Octylphenol, ½c. per lb.
a-Picoline, 3c. per lb.*
Styrene monomer, tech. grade, 3/10c. per lb.
Tobias acid, 3c. per lb.

* One producer

Reduced

None

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Oct. 2, 1959
118.29	118.28	118.28	118.47

For Current Prices see page 8

Basic Products

Benzene—July production of benzene from cokeoven was hampered seriously by steel slowdowns and the July 4th weekend. Latest Tariff Commission reports indicate July's total 1.6 million gallons less than the previous month. Petroleum supply of benzene also suffered with blame being placed on reduced crude output, the result of efforts by various states' regulating agencies to limit crude output in an oversupplied market.

In the current market little optimism is being expressed that supply recovery will occur before the new year.

Production of benzene in July totaled 34,535,135 gallons, according to the Tariff Commission, a decrease of 3,355,079 gallons from June.

By source production totaled:

Petroleum processors — 24,040,602 gallons, or 69.5 percent of the total, a drop of 1,520,601 gallons from June.

Cokeoven operators—9,373,343 gallons, or 27.3 percent of the total, a decline of 1,639,618 gallons from June.

Tar distillers—1,121,190 gallons, or 3.2 percent of the total, a decrease of 194,860 gallons from the previous month.

Naphthalene—Trade sources report no significant relief in the tight supply position of this product.

In viewing Tariff Commission figures of 42.5 million pounds for July production it is noted that there is small change from June's total. This is coincidence as a check with the Tariff Commission in Washington confirmed July's total as correct.

Interesting point here is that benzene output in the same month was off 10 percent while naphthalene production remained virtually unchanged.

Tariff Commission preliminary report for 1959 reveals the following production information:

Naphthalene, solidifying at 79° C., or above (refined flake) totaled:
Production—72,400,000 pounds.
Sales—38,253,000 pounds.
Value—$4,699,000.
Unit Value—.12c. per pound.

Broken down by origin:

From domestic crude naphthalene:
Production—28,347,000 pounds.
Sales—12,945,000 pounds.
Value—$1,678,000.
Unit Value—.13c. per pound.

From imported crude naphthalene:
Production—44,053,000 pounds.
Sales—25,308,000 pounds.
Value—$3,021,000.
Unit Value—.12c. per pound.

Tar Acids—Movement of cresols, cresylic acids and natural phenol have been brisk says one trade source.

Attributing the upswing to the effects of the recent rail strike, the spokesman said firms which were unhampered by

Aromatic Chemicals Ouput: July

Figures for benzene, xylene and toluene include cokeoven operators, tar distillers and petroleum operators. Creosote oil statistics include distillate as such, and creosote content of solution, on 100%-creosote basis.

		July 1960	*July* 1959	*First Seven Months* 1960	*First Seven Months* 1959
Aniline	lbs.	7,598,937	10,245,836	75,969,637	77,865,072
Benzene	gals.	34,535,135	20,891,726	256,228,913	202,785,589
Creosote, oil	gals.	6,328,301	6,660,000	55,423,760	57,015,302
Cresols, m-p and o-m-p fractions	lbs.	4,360,390	1,694,516	27,618,563	21,317,034
Cresylic acid, refined all sources	lbs.	4,314,808	3,825,484	33,448,527	34,023,620
Dodecylbenzene	lbs.	34,646,516	28,826,084	259,034,031	286,186,932
Monochlorobenzene	lbs.	51,305,743	44,420,272	356,129,402	310,287,221
Naphthalene, crude	lbs.	42,536,326	37,414,456	331,066,531	277,007,398
Phenol, tech. and USP	lbs.	63,005,896	58,618,749	452,566,431	377,060,022
Phthalic anhydride	lbs.	30,612,206	32,730,758	225,487,942	220,042,319
Styrene monomer	lbs.	147,533,226	125,074,749	1,015,936,016	766,808,033
Toluene	gals.	24,652,880	18,023,512	150,663,555	143,107,815
Xylene	gals.	28,368,931	17,027,743	171,726,452	125,307,645

Source: Tariff Commission.
† Revised.

Coal Chemicals

transportation difficulties apparently picked up additional business through September from companies unable to move products because of various labor troubles.

Toluene—One trade observer last week noted that toluene was growing firmer due to reduced cokeoven output.

This is in contrast to the loose supply situation encountered earlier in the year. With the advent of steel slowdowns and heavy export requests, however, the market has shown tendancies of firming to a point where a position near a balance in supply and demand has been achieved.

On occasion, it was pointed out by another source, there has been difficulty in meeting large scale requirements for export but only because of the long term commitments made by producer to domestic consumers.

Price remains at 25c. a gallon, delivered East of the Rockies.

Intermediates

Diphenylamine—As previously reported a major producer has made a 1c. across the board advance in price effective October 1.

Under the new schedule, flake material, bags, carloads, freight equalized, will be 32c. per pound; less carloads, same packing, 34c.

Refined fused diphenylamine in tankcars, 29c. per pound.

Price on refined diphenylamine in drums is half a cent higher.

Coal Chemicals

Estimated output of coal chemicals recovered from cokeoven operations during the week ended September 25, were as follows:

Ammonia liquor	lbs.	488,718
Ammonium sulfate	lbs.	20,553,299
Benzene	gals.	1,982,022
Coaltar	gals.	10,833,245
Crude chemical oil	gals.	316,762
Solvent naphtha	gals.	63,352
Toluene	gals.	443,466
Xylene	gals.	126,705

Dodecylbenzene Sulfonic Acid—A midwestern producer has clarified the announcement (OPD 9/19/60, page 4) of his new price schedule.

Listing for tankcar and tankwagon quantities should read on an "as is" basis rather than a 100 percent basis. All other listings remain correct.

Maleic Anhydride—An eased supply situation is reported for MA by a number of sources. The same observers also comment that fumaric acid supply has loosened somewhat but not to the extent experienced by MA.

Styrene Monomer—Quotations for technical grade, 99.2 percent has been advanced 3/10th of a cent effective October 1.

Prices are escalated for each calendar quarter on the basis of cost of benzene and petroleum refining labor.

New Schedule:
Tanks, bulk., .1254c. per pound.
Drums, car lots, .1504c. per pound.
Drums, less car lots, .1704c. per pound.

A.D.F. Naphthalene

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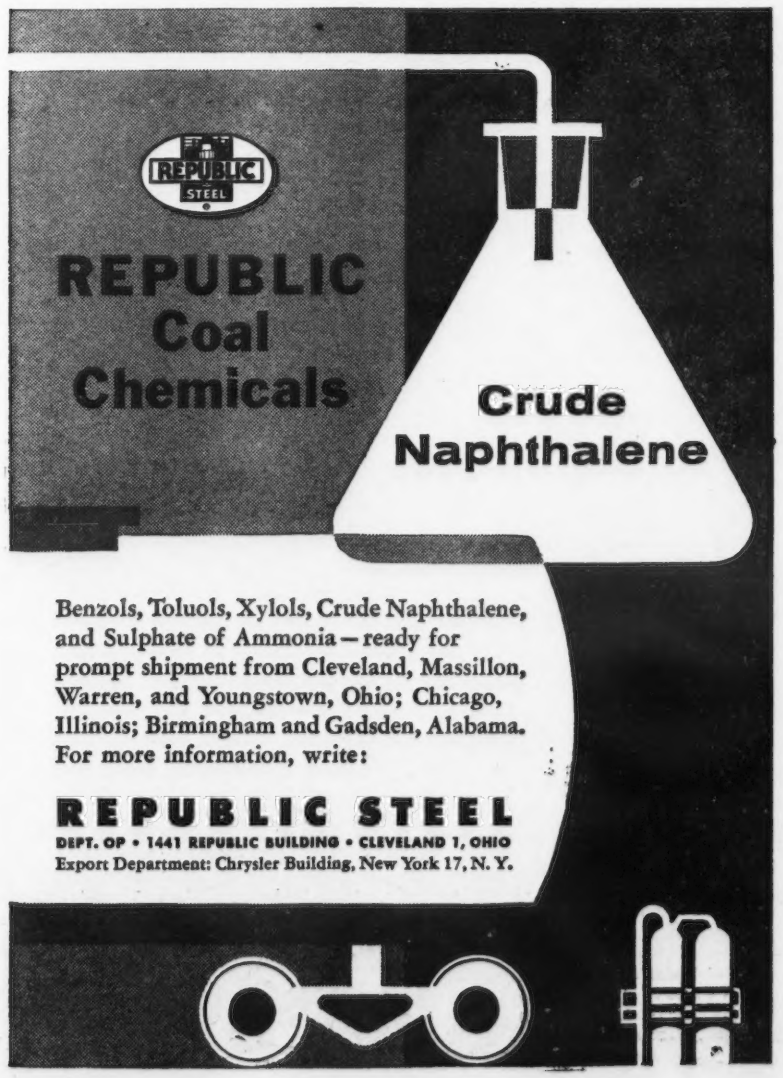

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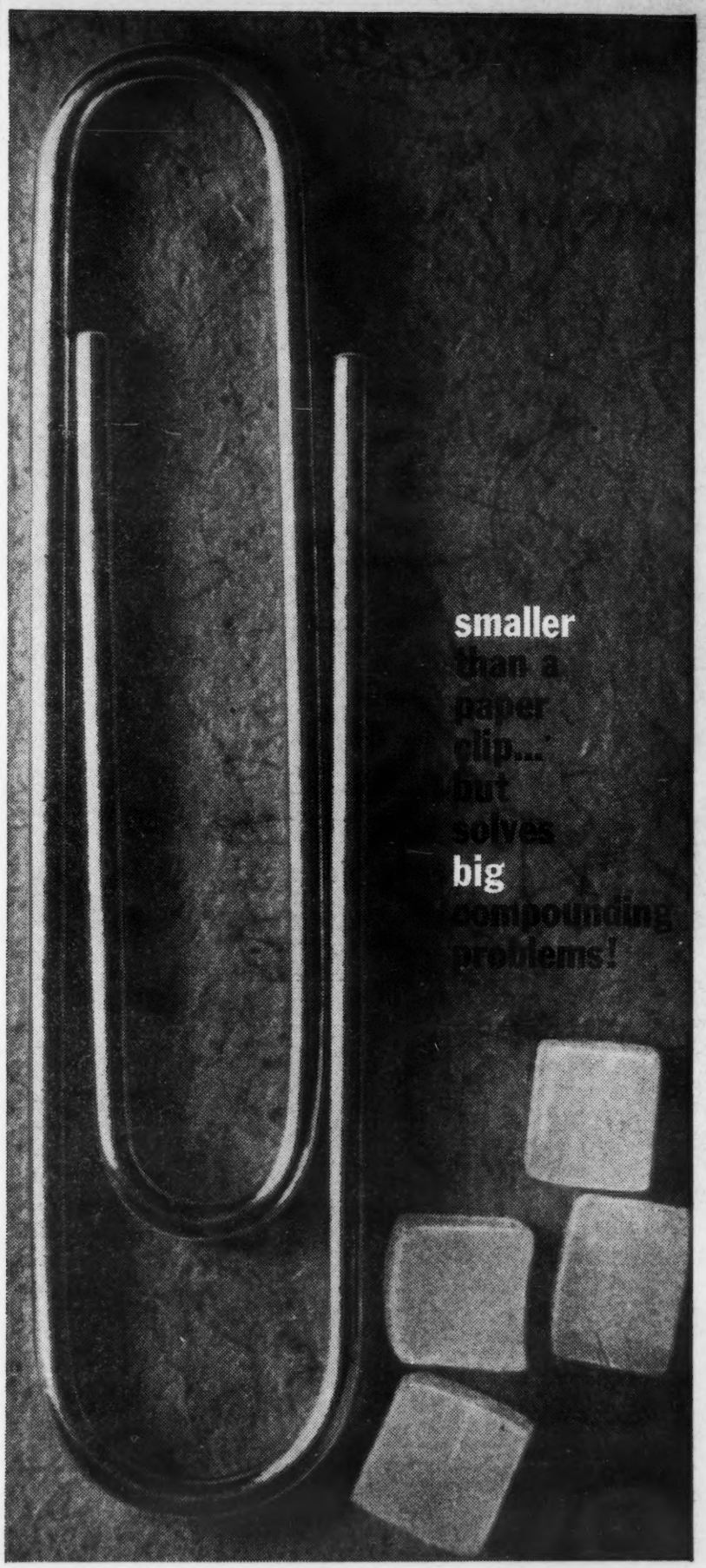

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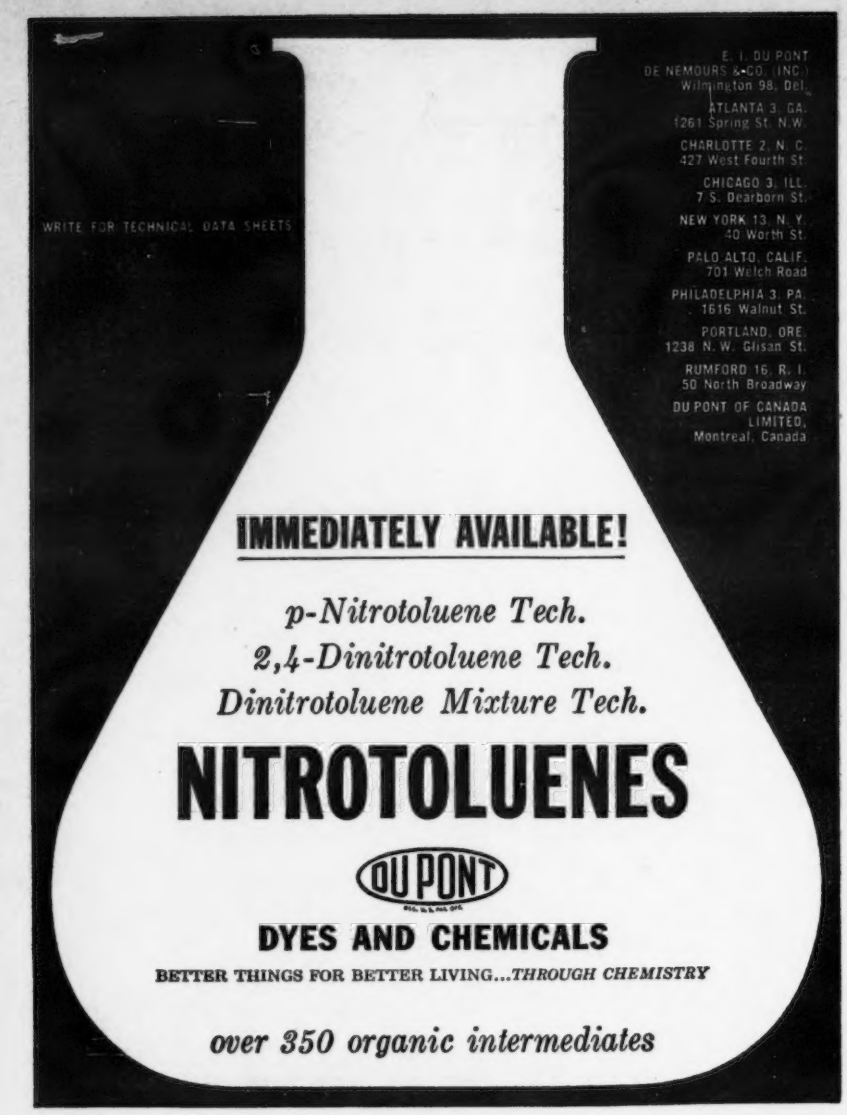
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Plastics Firm in Iraq Asks US Construction Bids

American firms are being invited to submit bids for supply and construction of a plastic plant in Baghdad, Iraq. Light Industries Company, of Baghdad is handling the invitation.

The plant is to have one-shift production capacity of approximately forty tons of thermosetting molding material and thirty tons of thermoplastics annually. The bid number is 3/60. No bid deadline is stated.

More details on the two units are available from the trade development division of the Department of Commerce.

SOCMA Lists Cast

—*Continued from page 7*

effect of present tariff policy from the point of view of labor.

Three simultaneous panels at the afternoon session will concern customs valuation and classification; the trade agreements law and GATT; and, finally, specific relief procedures against unfair import competition. A short concluding meeting will follow.

Featured speakers and panel members will include:

T. B. Audett, assistant deputy commissioner of customs; Serge N. Benson, tariff advisor, senate finance committee; Joseph Grubach, director of customs training school; Paul Kaplowitz, general counsel for the Tariff Commission; Edward F. Kenney, chief chemist, US Customs Laboratory, Port of New York; and Edwin F. Rains, asistant general counsel, Department of the Treasury.

Acrylic Plant Construction

—*Continued from page 3*

cleared surplus and offered for sale by General Services Administration.

Some of the basic facilities of the property, such as the power plant, office buildings and warehouse, can be used without major change, but extensively new construction—$12 million worth—will be required for production plants.

Installations for manufacture of methyl methacrylate monomer, "Plexiglass" acrylic moulding powder and by-product ammonium sulfate will be completed about mid-1961.

NEW DIRECTOR: Dr. C. M. Suter, elected director of Sterling-Winthrop Research Institute. He succeeds Dr. Maurice L. Tainter, who has been elevated to vice-chairman of the Sterling Research Board (9/26/60).

British Chemical Maker Opens Northern Ireland Unit

Albright & Wilson (Mfg.), Ltd., a British chemical maker, has opened a new sales office in Belfast to back up a growing sales effort in northern Ireland. The company is part of the Albright & Wilson group of chemical firms headquartered in London.

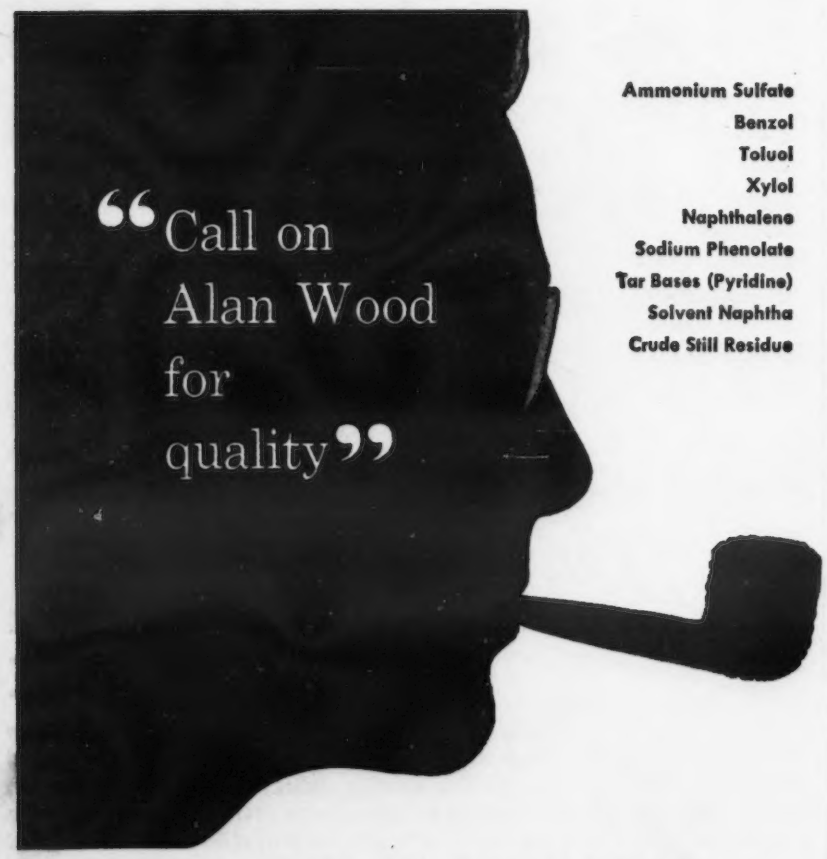
Heading the Belfast office is W. Kerr, who has been transferred from Glasgow, Scotland. The new office is in Imperial Buildings, 72, High street, Belfast.

Standard of Indiana

—*Continued from page 5*

Oil Company. In the fifteen midwestern states, where the parent company has owned rights to the Standard name, it will be continued through a Standard Oil division of American Oil.

Headquarters of Standard Oil and American Oil will be in Chicago. Standard Oil is now in Chicago; American Oil in New York, and Utah Oil Refining in Salt Lake City, Utah.



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United States Steel Chemical sales offices in Pittsburgh, New York, Chicago, Salt Lake City and Fairfield, Alabama

USS Chemicals
TRADEMARK

Drugs, Fine Chemicals

Of the five major drug firms that used to produce dihydrostreptomycin, only three remain. No. 5 bowed out about a year ago in what was described as a temporary move dictated by industry overcapacity and very low prices. Then about six months ago, No. 4 halted DHS manufacture. A spokesman for this firm told OPD last week that its action followed reports in the "literature" of the chronic toxicity of DHS—particularly auditory impairment, a potential hazard in long term therapy. Furthermore, he said that the firm was no longer offering the antibiotic either singly or in combination-form for use in human medicines in the US, although it would continue to supply its veterinary subsidiaries from existing stocks.

Two of the three remaining producers of DHS, queried by OPD last week, reported a decided trend to streptomycin in place of DHS in human medicines over the past four months. Prior to that time, one source commented, the trend was detectable but not "precipitous."

Indications of this gradual switch to streptomycin are seen, in retrospect, in production, sales and trade statistics for the two drugs.

Output of DHS, for example, dropped to 470,000 pounds in 1959 from 561,000 in 1958, while output of streptomycin rose to 281,000 pounds from 179,000. In the same period, sales of strep climbed to 240,000 pounds from 166,000. DHS sales in '59, at 492,000 pounds, however, were only slightly above the '58 level (465,000), and presumably this increase reflected greater usage of the antibiotic in treating poultry infections.

Exports of dosage forms are a second clue. In 1958, outshipments of DHS declined to 12,082,999 grams from 20,344,755 grams, while those of strep rose to 56,133,547 grams from 37,946,143.

Based on these facts, it seems that drug manufacturers here as well as abroad—Europe and Japan usually follow the US in these matters, a trade member says—were themselves not only aware of the potential harmful effects of DHS but taking steps to limit its usage. That, in effect, is what the proposed new labeling regulations issued last week by the Food & Drug Administration will do.

FDA proposed this labeling for DHS and its solutions: "Warning—for use only in patients who cannot tolerate streptomycin."

In making its announcement, FDA noted recent information which indicated that as little as two to five grams of DHS could impair the patient's hearing and that this effect could be delayed weeks or even months. This, of course, has prompted FDA to require new labeling of DHS containers, making this and other information as to possible side effects quite clear to the physician.

Brucine—What's going to happen to brucine now that "Bitrix" is here?

For an answer to this question, we went quite naturally to some of the importers of the alkaloid and their customers among the alcohol manufacturers.

Neither group gave any indication that brucine's usage would be seriously restricted by the new synthetic organic chemical. The general feeling among producers of SD-40, for instance, is that "Bitrix" will be a convenient hedge against potential shortages of the alkaloid. Spokesman for one firm said that it would offer four types of SD-40 the difference among them being the denaturant used: brucine, brucine sulfate, quassin, "Bitrix."

Several dealers feel, however, that there may be some scare sales of brucine in the next few days and that prices will fall as a result. Now selling at about $1.25 an ounce, brucine could go to $1.15 or lower, they said, if suppliers get anxious.

Price Trends

Advanced

None

Reduced

Neomycin sulfate, USP, 5c to 7c. per gram.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Oct. 2, 1959
59.78	59.78	59.93	60.47

For Current Prices see page 8

Caffeine—Demand for caffeine for use in coldweather market pharmaceutical preparations is picking up, but otherwise, the market situation is not appreciably changed. Supplies reportedly are adequate, prices competitive due to the influence of continual imports of European-source material.

Imports of caffeine in July, last month for which statistics are available from the Commerce department, were 47,643 pounds, valued at $66,019 and dutied at $24,297.

Shipping here were: West Germany 23,423 pounds, valued at $28,027 and dutied at $11,945; the Netherlands 17,500 pounds valued at $21,645 and dutied at $8,925; and the United Kingdom 6,720 pounds, valued at $16,347 and dutied at $3,427.

Folic Acid—Following action by Food & Drug Administration limiting the amount of folic acid in over-the-counter multi-vitamin preparations to 0.4 milligrams per daily dose, there was considerable fear that this would seriously limit the use of the vitamin in all preparations, including those intended for prescription sale only. That this is actually going to result from the government move is indicated in a rumor now circulating in the trade that a leading vitamin maker has discontinued use of folic acid in all preparations. It is to be immediately pointed out, of course, that this is merely a rumor, and as yet not a confirmed report.

Preparations furnishing less than 0.4 milligrams or less of folic acid daily will be permitted to be sold over the counter until March 6, 1961. After that date, they may continue to be sold in that manner provided satisfactory proof of safety for intended use is submitted in a petition to FDA as required under the food additives law.

Neomycin—Lower prices for USP neomycin sulfate were posted by a major producer September 22. Under the new schedule, lots of 1 kilo or more are listed at 18c. a gram, lots of 100 to 999 grams at 25c. a gram. These prices represent reductions of 5 and 7 cents, respectively.

Advised of the change, spokesman for a second producer of this antibiotic indicated that similar action would be taken. Other firms were not available for comment, but it can logically be expected that the price reduction will go industry wide.

Neomycin is now being used in a popular deodorant. That prices were dropped to encourage greater usage in this type of preparation and in the cosmetic area generally is difficult to say at this time.

Quinine—Limiting demand for quinine, reportedly, is the fact that users built up

Drugs and Fine Chemicals Output: July

Following statistics for selected fine chemicals and drugs were compiled by the Tariff Commission. Figures relate to the production of bulk material only.

		July	June
Acetylsalicylic acid	lbs.	1,695,574	1,906,188
Ascorbic acid and salts	lbs.	—	434,668
Dihydrostreptomycin	gms.	6,224,759	17,077,300
Niacin and amide	lbs.	53,201	223,777
Penicillin salts	million-units	30,626,068	37,884,440
Phenobarbital	lbs.	—	—
Pyridoxine	lbs.	—	6,936
Streptomycin	gms.	11,254,673	21,343,914
Sulfa drugs	lbs.	237,455	416,689
Tetracycline	gms.	—	—
Thiamin derivatives	lbs.	—	28,712

A dash (—) indicates data not reported.

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Drugs, Fine Chemicals

large stocks in advance of price advances earlier this year. In fact, according to some sources, a six-month requirement is still held by some of their customers.

Still the big question and still unsettling importers of quinine as well as domestic manufacturers is the government's quinine stockpile that GSA plans to put on the block within a few months. Interest in obtaining the 13 million ounce horde doesn't seem quite as strong as formerly but perhaps as the sale approaches more enthusiasm will be in evidence.

Imports of quinidine and derivative salts in July totaled 25,582 ounces and was valued at $17,668. Shipments arrived here from the Netherlands (20,582 ounces at $13,918) and West Germany (5,000 ounces at $3,750).

The same month, imports of salts and alkaloids derived from cinchona bark amounted to 12,407 ounces, valued at $3-011. This material came from the Netherlands (7,407 ounces at $1,611) and West Germany (5,000 ounces at $1,400).

Undecylenic Acid — Unchanged, the price of undecylenic acid is $1.28 a pound in 55-gallon non-returnable drums, f.o.b. works point.

Zinc undecylenate, after a series of small advances, is currently quoted at $2.04 a pound in 75-pound fiber drugs, f.o.b. works.

Botanicals

Requirements for such large volume domestic botanicals as wild cherry and white pine barks have increased markedly with the arrival of fall. With the greater demand, prices have become very strong and indications are that advances will be posted soon.

Buchu Leaves—Recent arrivals of new crop material precipitated a price decline of about 5 cents a pound. Current quote, reflecting a quantity breakdown, is 65c. to 70c. a pound.

Lobelia Herb—Prices have advanced sharply during the past few weeks. Most recent reports indicate that sales are being made at 75c. to 80c. a pound. At the end of the season, the schedule was about 55c. to 60c. a pound. Small collections this summer and the anticipated shortage this winter propelled prices upward, dealers said.

White Pine Bark—Current quote is 21c. to 22c. a pound and very firm. In fact, some dealers expect to see higher prices before many weeks elapse. Good demand and the limited stocks on hand will pressure the rise, they say.

Chemical Industry Overseas

—*Continued from page 3*

lion in 1950 to $319 million in 1957 and on to $440 million in 1950, while investments in the Latin American chemical industry were moving up from $205 million in 1950 to $334 million in 1957 and $361 million last year.

Chemical investments in Africa rose from $9 million in 1950 to $15 million last year; in Asia from $12 million to $59 million and in Oceania from $13 million to $40 million.

Without giving any details as to the industries or products involved, the study reported that manufacture of goods by the US companies far exceeds imports from the United States.

Total manufacturing production by the companies in Europe had a sales value of $6.3 billion in 1957, compared with imports from the United States of similar manufactures of less than $2 billion.

Not a Factor in Imports

There were indications in the survey that products being produced abroad by American firms are figuring importantly in the import totals of the United States. The department estimated aggregate sales of commodities by the foreign enterprises were $32 billion in 1957. Over $3.5 billion of these sales were exported to the US, accounting for more than one-quarter of all US imports in that year. The extent to which these involved chemicals was not shown.

The bulk of the exports to the US consisted of crude and processed raw materials such as petroleum, food stuffs and metals. Imports of manufactures and semi manufactures from US-owned factories abroad totalled about $1 billion, somewhat less than one-quarter of all imports of such items.

Canada Biggest Shipper

Almost 80 percent of the shipments of manufactures to the United States from direct investments abroad came from Canada, and were comprised mainly of newsprint, woodpulp, and aluminum. Imports from European plants were about $200 million, with automobiles and parts the largest single item.

American-owned mining companies produced $2 billion of metals and minerals abroad in 1957, of which 45 percent was exported to the United States. Sales of mining enterprises dropped off in 1958 as world demand slackened, but by 1959 had recovered to somewhat more than the 1957 total.

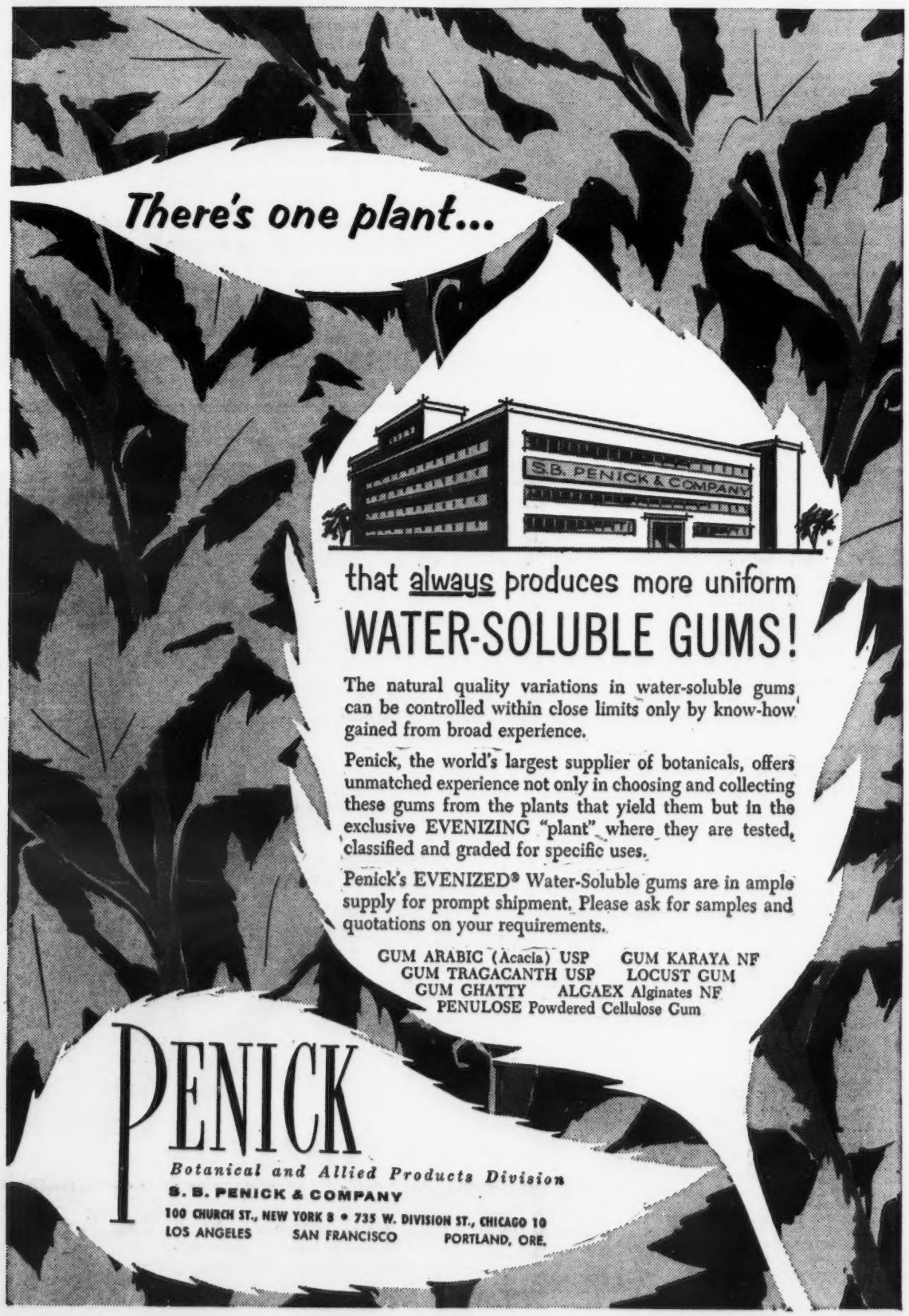
Of the various metals produced abroad, copper, lead and zinc were ahead in sales by about 40 percent, while sales of iron ore and nickel were each about 15 percent

India's Parliament Nods

—*Continued from page 7*

made in India prior to the second plan, has progressed "beyond expectation."

In a related field, India's steel output is now hitting an estimated 2.5 million tons a year, an increase of 800,000 tons over 1959. During the past two years, imports have declined from an annual rate of 11,000 tons to just 600,000.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Dihydrostrep: Makers Quit, Gov't Gets Tough

—Continued from page 5

nonetheless possible that use of DHS in treating poultry infections will be voluntarily discontinued, and strep used instead.

Because of DHS's potentiality for causing delayed deafness—a fact that has been known for years—FDA has required producers to note on the labeling that frequent auditory and caloric tests should be performed on all patients receiving the drug on a long-term basis.

More recent information, however, indicates that the danger to the patient's hearing is greater than first suspected. FDA says that auditory impairment or total deafness can result from a much smaller dose and over a shorter period of time than was formerly believed necessary to produce the injury.

This fact, plus the closer supervision being maintained over the safety of drugs as a result of the criticisms expressed before the Kefauver price investigating committee last summer, has compelled FDA to notify producers of its intentions to change the labeling regulations to require outside wrappers on containers and the immediate container to bear this statement:

"Warning: For use only in patients who cannot tolerate streptomycin" (for dihydrostreptomycin sulfate and for dihydrostreptomycin solution). Or, "Warning: For use only in the treatment of patients who cannot tolerate full doses of streptomycin" (for mixtures of dihydrostreptomycin and streptomycin).

Added Requirement of Warnings

The warnings will also have to include information to the effect that because of its potentiality for causing delayed deafness, dihydrostreptomycin sulfate should be administered only to patients having infections amenable to treatment with streptomycin or dihydrostreptomycin, but for whom streptomycin is contraindicated.

In the case of mixtures of dihydrostreptomycin and streptomycin, the labeling should limit the drug's use to patients having tuberculosis who are amenable to treatment with one or both of the drugs but who cannot tolerate full doses of streptomycin.

In the case of all of these drugs, the labeling should state that severe auditory damage has been reported following a total parenteral dose of as little as 2 to 5 grams of dihydrostreptomycin. The auditory damage, which is usually permanent, may be delayed for a few weeks or up to several months, the proposed warning adds.

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OPD Reports From Europe

Chemical Bet: The Common Market

—Continued from page 4

mystification about what the De Gaulle future adds up to cause worries.

Gen. De Gaulle in essence has proposed that political integration of Europe be limited to a kind of political secretariat for collaboration of sovereign nations outside the existing European trade communities structure.

He would also hold a Europe-wide referendum on the proposal and tie it into a new Parliament of Europe. One clear and admitted purpose of the policy as explained to the French Assembly is to limit the influence of both Britain and the US in Europe, and this will certainly complicate efforts to bridge the trade bloc chasm.

In addition to the division of Europe, another difficulty bothering the Germans, Italians and Dutch is the General's sarcastic criticism of granting powers to community institutions over national powers. The Dutch and Italian governments made their immediate displeasure known, and only the Belgians have offered support to France in what is generally thought to be a kind of repayment for French support of the Belgian position in the Congo crisis.

German Position Quite Definite

Germany's position was made known in more muted but quite definite form. A recent bulletin of the German Federal Government press office said: "The fact that De Gaulle has omitted from his proposals the concepts of super national institutions, and of delegating powers to them, will not prevent these ideas receiving further attention as they are held in common by the majority of the Common Market states, including the Federal Government."

German industry, and particularly chemical companies, continues to press for more European integration and for an effective trade bridge with the EFTA. Fritz Berg, president of the Federation of German Industries, a fairly influential group, has called for the creation of a non-political customs union between the Six and the Seven.

In such a union, all the member states would adopt a common tariff against imports from outside. Mr. Berg also has suggested that in a Europe-wide customs union Britain should be allowed certain duty-free quotas to import limited quantities of Commonwealth goods.

Britain Cites a Bar

Britain for years has cited the existence of its system of Commonwealth preferences as a bar to its joining the Common Market. Earlier customs union proposals have been opposed by the US on the grounds that the system would largely discriminate against the dollar.

The German government's position in all the trade and integration negotiations now is complicated by the latest Berlin crisis, since Chancellor Adenauer is trying to maintain British, US and French support for German policy on Berlin. Britain has gone out of its way to support Chancellor Adenauer's view of the Berlin crisis and this accounts for some of the recent improvement in British-German relations. But Adenauer also is anxious to keep the support of Gen. De Gaulle.

In Brussels, Common Market officials frankly confess some surprise at the De Gaulle proposals. They had been expecting a re-phrasing of earlier statements urging a strengthening of the Council of Ministers as a political balance to the proposed merger of the executives of the Common Market, Euratom and the Coal and Steel Community.

The Council of Ministers takes decisions on the proposals of the community executives and coordinates the communities relations with the national governments.

The Path Not Clear

It isn't clear now how the proposals for a merger of the three communities, which has the backing of all three community presidents, will be affected by the latest moves. The merger would greatly strengthen the hand of European integrationists and would ease some planning difficulties. Under the present set-up for example in the energy field, petroleum is under the Common Market, coal the European Coal and Steel Community and nuclear energy under Euratom. Experts argue that until the communities are merged it will be impossible to develop a reasonable European energy policy.

But merger, which was pressed strongly last Spring, will probably be delayed since such a move would require some modification of the Rome treaty and would thereby open up the treaty for many other changes, particularly those Gen. De Gaulle might like.

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Trade Name Chemicals

—Continued from page 41

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Nalco Chemical Company, Chicago, Ill., manufactures a series of ion exchange resins under the tradename, **"Nalcite."**

Sizings

With the exception of blotter types, paper manufacture requires addition of alum and rosin sizes. Starch is also widely used in paper sizing and helps to form a smooth, coated board. Then, depending on the properties a manufacturer may wish to obtain, other ingredients are added. For example, wet-strength resins may be added in beater application to fix sizing in the stock and prevent ink-smearing such as is occasionally seen in "slick" magazines. Beater application serves to sustain internal wet-strength. Surface application gives water-resistance or a "duck's back" effect. Chemically-built resins or aqueous emulsions of paraffin or microcrystalline waxes may be used in beater application to extend rosin size.

Sizings used in the textile field serve to increase strength, smoothness or weight of fabrics and yarns, or modify cooked starch solutions applied to warp ends before weaving. Use of ordinary starch for sizing has always posed a troublesome waste disposal problem of large volumes of water used in the desizing process. Oxygen demand in these wastes may draw from water the oxygen needed to support fish and plant life. A. E. Staley has a new warp sizing starch, **"Oxytrol,"** in the pilot plant stage and expects to be in full production by the end of the year. This material is chemically modified and reported to have 70 percent less biological oxygen demand than regular starches in standard five-day B.O.D. tests.

On the retail level, common laundry starches, which had to be boiled to disperse the granules, were used as sizing materials by many generations of housewives. The inconvenience of such boiled starches led to the development and wide acceptance of liquid starches, although these still have the disadvantage of being temporary; that is they wash out in laundering and restarching is needed after each trip to the washing machine.

Polyvinyl Chemicals Inc., reports development of a new plastic starch, **"NeoVac V21C,"** to be marketed in bulk to custom packagers for home laundry use. Another formulation, **"NeoVac V21P,"** has been modified specifically for aerosol packaging but is otherwise identical. The new products are expected to join the ranks of long-wearing, easy-to-use synthetics which have carved out a 15 percent niche in the $60 million home laundry starch market.

Obituaries

Edward Cabaniss, former president and chairman of the board of Joseph Dixon Crucible Company, Jersey City, N. J. died September 26 in Washington. He was seventy-five years old. For thirty-six years Mr. Cabaniss had been an officer in the company.

Clarence Blumoehr, assistant to the president of Phelps Dodge Copper Products Corporation, died last week in Staten Island, N.Y. He was fifty-eight years old.

Carlile P. Winslow, one of the founders of the US Forest Products Laboratory at Madison, Wis., and its director from 1917 to 1946, died September 24 in Washington. He was seventy-six years old.

Canadian Chemists to Meet

The Canadian Manufacturers of Chemical Specialties Association will hold its third annual meeting and conference October 24 to 26 at the Queen Elizabeth hotel in Montreal, Quebec. Featured will be three panels covering tariffs, pesticides, and chemical marketing. Details will be issued shortly.

Merck to Boost L.A. Stake

—Continued from page 3

fourteen countries outside the US. The Merck, Sharp & Dohme International Division had net sales, including direct exports from the US, of $63 million in 1959, contributing about 29 percent of Merck & Co.'s total net sales of more than $216 million.

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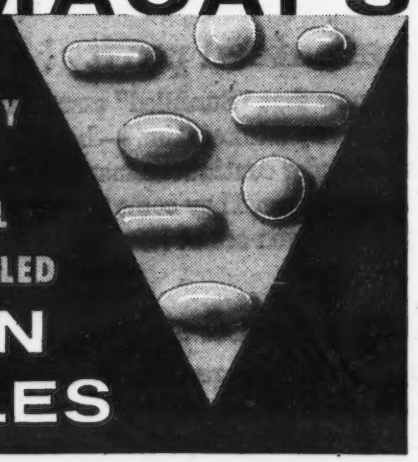

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Essential Oils, Aromatics

Five advances and four declines were reported among the essential oils. Sweet fennel advanced 65 cents per pound, lemongrass advanced 15 cents per pound, pimento leaf advanced 20 cents per pound, sandalwood advanced 50 cents per pound and spearmint advanced 75 cents per poud. Among the declines were Brazilian bois de rose, 5 cents per pound, Java-type citronella, 3 cents per pound, ocotea cymbarum, 3 cents per pound, and all the vanilla beans. Bourbon material declined 25 cents per pound and Mexican whole material declined 25 cents per pound.

Grapefruit is exceedingly scarce and quite firm, but the price listing did not change during the week. Sandalwood is also in low supply on spot.

Spearmint is advancing almost as rapidly as it declined when new crop material became available. Some dealers say that the price declined too fast when the new crop came in and that the present advances are merely bringing the prices to a "normal" level.

Rutgers University is offering two special courses this semester in perfumery. One deals with perfumery and essential oils and the other is a study of the chemistry of perfume materials. Both are being taught at the Extension Division of Rutgers University, 601 Broad Street, Newark.

From the Foreign Commerce Weekly, published by the U. S. Department of Commerce, we have the following item about Haiti.

Factories and plantations of the sequestered Etablissements Agricoles et Industriels Louis Dejoie, S.A., in Southern Haiti, will be brought back into operation for distillation of essential oils for export, long one of Haiti's significant secondary agricultural industries.

The Haitian Government Tax Office has leased the property of the recently formed firm, Compagnie Nationale des Essences Armomatiques, S.A., operating in Haiti under authorization of a Presidential decree of November 19, 1959.

One of the essential oil companies has announced that it has developed a new line of odorants—designed particularly to improve the odor of malathion.

This new odorant will help to camouflage the smell of malathion in such products as insecticides, flea sprays and powders and aerosol garden sprays.

The following information about oil in Korea is from the United States Department of Commerce.

Menthol is made from peppermint oil; citronella oil Java-type, or the coaltar derivative, meta-para-cresol. Peppermint oil that has been dementholated is known as cornmint oil.

Two facilities produce menthol and also distill the peppermint oil raw material from peppermint plants. Their combined annual capacity, based upon 300 days of operation, is 195,000 pounds of menthol and 138,000 pounds of cornmint oil.

Acreage planted to peppermint increased 310 percent in 1958-60. The yield of oil per acre depends upon the species planted, type of soil, weather, and weeding and other plant care.

Improved selection and cultivation have resulted in a 20 percent increase in yield, as shown below:

	1958	1959	1960
Acres planted	2,989	9,804	12,255
Pounds of peppermint oil per acre.....	132	145	158

Price Trends

Advanced

Fennel, sweet, 65c. per lb.
Lemongrass, 15c. per lb.
Pimento leaf, 20c. per lb.
Sandalwood, 50c. per lb.
Spearmint, 75c. per lb.

Reduced

Bois de rose, Brazilian, 5c. per lb.
Citronella, Java-type, 3c. per lb.
Ocotea cymbarum, 3c. per lb.
Vanilla beans, Bourbon, 25c. per lb.
Mexican cut, 25c. per lb.
Mexican whole, 25c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Oct. 2, 1959
108.47	108.94	108.15	111.66
106.86	106.81	106.81	103.56

For Current Prices see page 8

Essential Oils

Bois de Rose—General weakening of the market was noted. From its previous level, $2.10 per pound Brazilian material fell to $2.05 per pound.

Citronella—Java-type material declined from its previously-quoted level, 91c. per pound, to 88c. per pound. Ceylon material remains at its previously-quoted level, $1 per pound.

Fennel—Sweet fennel, USP has advanced in price.

From its previously-quoted price, $1.95 per pound, it has risen to $2.60 per pound.

Lemongrass—From its previous price, $1.95 per pound, lemongrass has advanced to $2.10 per pound.

Ocotea Cymbarum—The market is weakening.

From its previous price, 48c. per pound, ocotea cymbarum has declined to 45c. per pound.

It is interesting to note that the first ocotea cymbarum oil was distilled in Brazil, for commercial purposes, in 1938. This first distillation was done by a German immigrant, Otto Grimm.

During World War II when the Western Hemisphere was unable to get shipments of sassafras oils from Europe and Asia, this Brazilian oil was eagerly sought after.

It was in demand by such industries as pharmaceutical, food, beverage, soap and cosmetic.

Peppermint—Random reports are that the market is firming. Prices, however, remain at their previously quoted levels. The natural material continues to sell for $4.25 per pound and the redistilled, for $4.35 per pound.

Most dealers in the New York area, however, are charging a considerably higher price for the redistilled material.

Pimento Leaf—From its previous price, $2.20 per pound, pimento leaf has advanced to $2.40 per pound.

Sandalwood—Already at an inflation-level, sandalwood oil last week advanced 50 cents per pound.

Material, when it can be found, is selling for at least $23 per pound.

The aromatic chemical manufacturer who has just started producing a chemical which imparts the characteristics of sandalwood oil reports that the initial response has been tremendous.

A number of cosmetic and related manufacturers have requested samples and trial orders, according to the company.

Spearmint—The market firmed considerbly during the week according to reports from essential oil dealers in the New York area.

From its previous low, $4 per pound, it has suddenly jumped up to $4.75 per pound.

The following explanation has been put forth by knowledgeable dealers:

When the new crop came in, the price dropped by 50 percent. Reports had been circulated that the new crop was substantially larger than last year's.

Prices dropped too fast. Some big users stepped in and acquired large portions of the crop at low prices. And now there is not very much material available.

This, we emphasize, is merely conjecture.

Thyme—The market is steady, say essential oil dealers here in the New York area. Red thyme continues to sell for $1.80 per pound, white for $2.10 per pound and the technical grade for 40c. per pound.

Aromatic Chemicals

Vanillin—Manufacturers report that business is going along as usual with no increase or decrease in sales since the price cut last month.

Just what the future holds in store for the vanillin market is quite uncertain. Some news sources look for rising prices, some fear declining prices and some foresee no change at all.

Seeds and Spices

Ginger—New crop Cochin material is scheduled to arrive on spot by the first

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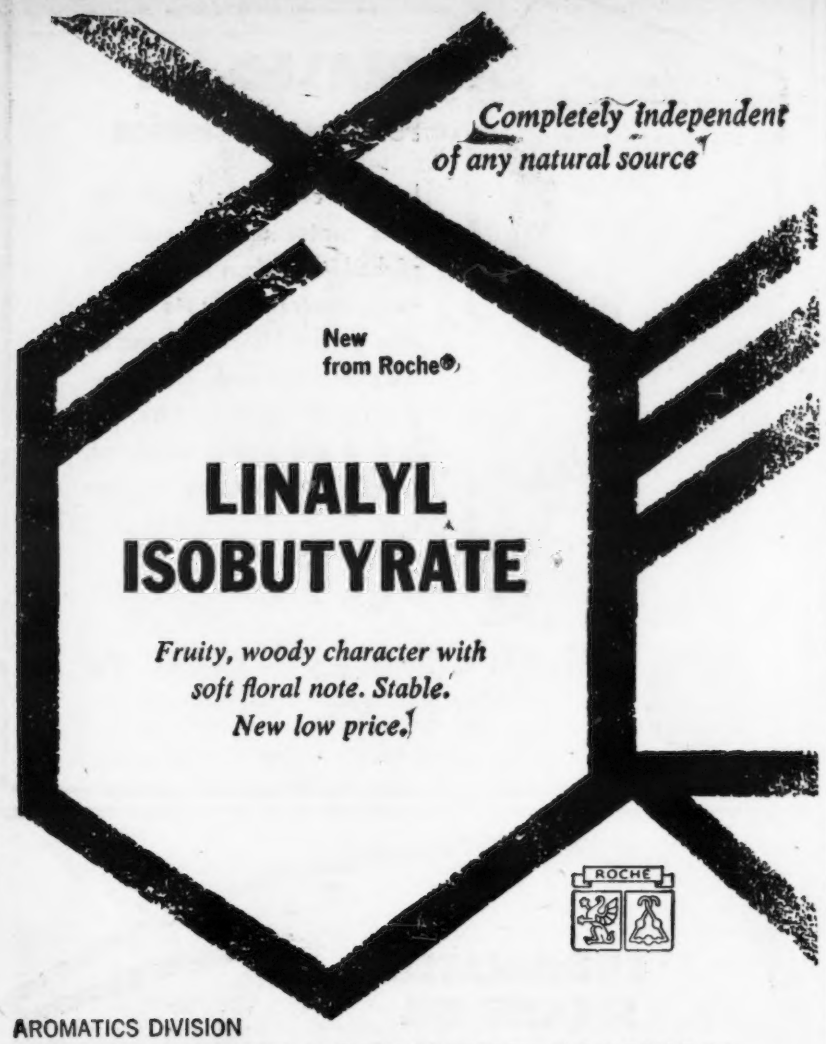

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Essential Oils

of the year. Jamaica material is expected to arrive in February.

Paprika—It is reported that supplies on spot are disappearing rapidly, but that farmers in Spain are reluctant to sell their pods. New crop trading is expected to be delayed until the farmers decide to sell.

Pepper—Muntok white remained at its previously quoted level, 78c. per pound, but Malabar and Lampong black both declined. They both were reduced from 54c. per pound to 51c. per pound.

Informed new sources say that the Iron Curtain countries are buying material from India, hence keeping the price at a relatively high level.

Demand for white pepper is reported to be slow.

Pimento—It is said that the floor price of material from Jamaica has been raised.

Vanilla Beans—Trade sources interviewed were gloomy. Prices declined slightly. Bourbon beans came down from $10.25 to $10 per pound and Mexican whole beans came down from $10.75 to $10.50 per pound.

The main reason for the price declines, say trade spokesmen, is that the upcoming crop of beans is going to be anywhere from 650 to 900 tons, whereas the current crop amounted to 350 tons.

One news source reported that shipping prices for futures, around the first of the year, would be some $7.25 per pound.

From published sources we reprint the following information. The Madagascar government has decided not to set a floor price or an export quota on vanilla. It had considered establishing a floor price of $20 per kilo, f.o.b. and a yearly export quota of 450 tons.

Madagascar is reported to supply some 80 percent of the world's supply of vanilla beans.

The government has said that it will levy a 60c.-per-kilo tax on exports of the 1960 crop, however. This will go into effect when the crop is marketed—beginning January 1, 1961.

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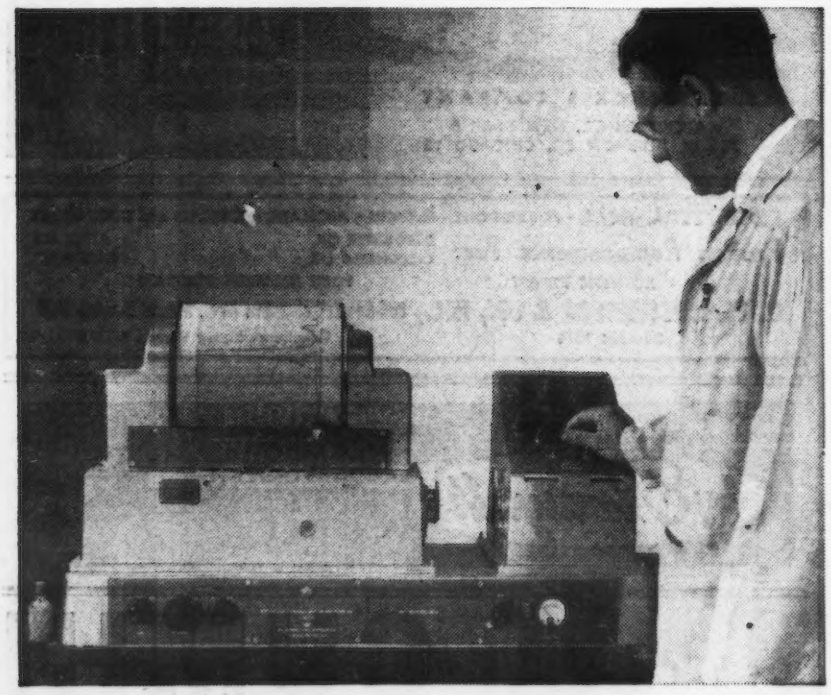

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Coatings Materials

For the last five or six years producers have consistently predicted a decline in the US exports of carbon black. Yet with each year exports scored sizable gains. While this has come as a welcome surprise to producers, they are understandably hesitant to predict any further declines. As trend has been upward as far as exports of the carbon blacks are concerned, the domestic market is undergoing internal changes of its own.

Domestic channel black shipments were down 12 percent in the first 8 months of 1960. This is reported to be the biggest decline in shipments in what is described as the general squeezing out of the channels from the domestic market. Natural gas used in the manufacture of the channels is becoming too expensive, as the demand for the natural gas as a fuel is found to be a more profitable outlet. Contracts for natural gas are reported going uncompleted, and producers find that shipments of the furnace more than make up the difference.

Rubber usage makes up about 95 percent of total carbon black consumption. And Western Europe takes about half of the total US exports. Last year the US exported 518 million pounds of carbon black, of which Western Europe took 248 million pounds. In the first half of this year US exports to Europe were up 22 percent. How long this trend will continue is the big question in producers' minds. Two new carbon black plants are scheduled to go on stream in France this Spring. Capacity will be about 100 million pounds and Italy will have a 90 million pound capacity plant shortly.

With the new plants the European market is expected to require less of US carbon black. Yet in the case of Holland one finds imports of carbon black increasing despite the addition of new plants. US exports of carbon black to Holland were up 16 percent in the first half of 1960, despite the recent placing on stream of a carbon black plant there with a capacity of 50 million pounds.

A new development in pigment extenders is reported to offer numerous savings to producers of interior emulsion paints. Described as a synthetic, hydrous calcium silicate, the pigment is said to display remarkable hiding power at low concentration.

According to the manufacturer, his product can effect savings in either of two ways. By replacing 40 to 50 pounds of titanium dioxide per 100 gallons with the new pigment extender, the reported saving is approximately 10 cents per gallon.

In replacing the titanium dioxide, no loss of opacity and only a slight difference in tint is reported. In existing formalae, more hiding power can be achieved by using moderate amounts of the new pigment extender instead of adding titanium dioxide.

Classified as a medium particle size extender pigment, it reportedly gives optimum performance when used at levels of 30 to 35 gallons per 100 gallons.

Prime Pigments

Aluminum Paste and Powder—Listings for the paste and powder remain at 71 cents per pound for paste, lining, extra-fine, and powder, lining, extra fine at $1.13 per pound. Demand is reported to be about normal with some increase from exterior paint formulators expected in the next month. Producers base this estimate on the usual upward trend in roofing paint demand that comes in early Fall.

Phthalocyanine Blue—Output of both alpha and beta modifications of phthalocyanine blue dropped by more than 50 percent in July, compared to the production figures for the previous month. Phthalocyanine blue output in June was estimated by the Tariff Commission at 330,581 pounds. In July, estimates by the Commission show production at 176,506 pounds.

Ultramarine Blues—Producers report that demand for the ultramarine blues is generally normal for this time of the year. Market conditions are satisfactory. Stocks are at ample levels, prices are unchanged and firm.

Zinc Oxide—No problems in meeting customers demands has resulted from the strike of one of the largest zinc producers,

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Oct. 2, 1959
103.13	103.13	103.16	103.05

For Current Prices see page 8

according to reports current in the trade. Prices are unchanged from their previous levels.

Synthetic Resins

The following figures show production in pounds for July with June's figures included for comparison, as reported by the Tariff Commission:

Production

	June	July
Phenolic and other tar acid resins:		
Molding resins	19,338,838	12,067,621
Laminating resins	5,364,225	4,424,945
Protective coating resins, unmodified, modified, except by rosin	2,010,432	1,786,853
Urea and melamine resins:		
Protective coating resins, straight modified	3,312,756	2,902,343
Vinyl resins:		
Total all types	93,687,738	83,735,133
Alkyd resins for protective coatings:		
Phthalic anhydride types, unmodified	24,516,368	19,661,553
Modified with tar acids, rosin, and/or other materials, except styrene	6,134,250	5,535,281
Polybasic acid types except phthalic:		
Unmodified	740,581	419,543
Modified with tar acids, rosin, and/or other materials except styrene	622,364	554,252
Rosin modifications for protective coatings:		
Rosin, rosin esters, unmodified (ester gum, esterified with glycerol)	681,652	654,274
Esterified with other alcohols, pentaterythritol, glycols, etc.	696,077	574,700
Rosin, rosin esters, modified:		
Modifications with phenolic and other tar acid resins	2,157,263	1,860,355
Modifications with maleic and fumaric acids	2,361,402	2,805,978
All other modifications	5,563,843	4,020,870
Coumarone-indene and petroleum polymer resins	21,040,681	17,239,089
Miscellaneous synthetic plastic and resin materials, including silicone resins	25,476,690	21,057,138

Lacquer Materials

Cellulose Butyrate/Acetate—Food container use continues to take its share of the steady demand for this lacquer material. Supplies of butyrate and acetate are reported in a favorable balance, unlike the see-sawing supply situation often reported for the phthalate plasticizers. Prices are at their long-standing listings with no change anticipated.

Nitrocellulose—Overall conditions are reported to be unchanged in regard both to prices and supply conditions. Demand from the furniture industry continues to be well sustained.

Plasticizers—The phthalate esters of course, are still in a tight supply condition. Coal tar production of naphthalene during July was about 42.5 million gallons, unchanged from the previous month's output, according to reports from the US Tariff Commission. The continued tightness in regard to naphthalene supplies should show some improvement when steel's capacity is raised.

Production of the plasticizers slipped a few notches in July when compared to the output for the previous month's total. As reported by the Tariff Commission, July's output of dibutyl phthalate was 968,333 pounds. In June, the Tariff Commission reported the production of dibutyl at 1,177,400, about 200,000 pounds above the output for July.

Production of dioctyl phthalates, including di-n-octyl, di-isootyl, and di(2-ethylhexyl phthalates and mixtures were off by almost 3 million pounds in July compared to the output turned out in the previous month. During July, dioctyl phthalates' production was 11,933,886 pounds, as against 14,897,848 pounds for June.

Tricresyl phosphate output was reported

—*Continued on page 55*

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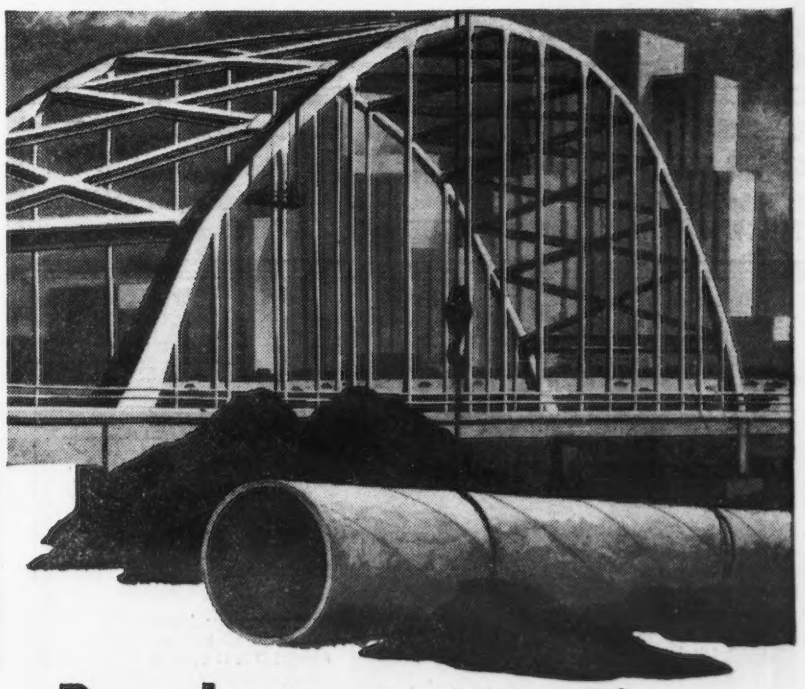

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Oils, Fats and Waxes

Feature of the oils and fats market last week was authorizations under PL480 for the purchase of 73,500 tons of soybean oil by Spain between October 5 and November 30 and 23,750 tons of soybean or cottonseed oil to Pakistan and Taiwan from October 5 to February 28, 1961. This stiffened all edible grades and raised prices ¼ cent per pound for soybean and corn oils, also increased demand for crude cottonseed oil. Peanut oil was quiet and unchanged. Crude coconut oil remained steady at unchanged prices. Copra was quiet, off $5 per ton. Olive oil on spot declined 5 cents per gallon, because of easier primary markets.

Stronger tone featured the tallow and grease market because of the scarcity of offerings. Sellers refused lower bids and maintained prices for all grades. Trading was spotty and confined to domestic delivery. Export business was reported slow.

Linseed oil demand was fairly active for actual requirements. Prices were unchanged and steady. Interest in other industrial oils was confined to actual needs. Tung oil was weaker because of lack of buying interest and liberal selling pressure. Prices were nominal and shadable. Demand for Brazilian castor oil was better for prompt delivery though quotations were still shadable in some quarters. New crop safflower oil was about ¼ cent lower than old crop.

Tight supply of sperm oil further strengthened the market. Quotations were advanced 1 cent per pound and refined fish oils were raised half a cent. Spermaceti wax was also lifted 1 cent.

Soybean meal continued weak and unrestricted dropped $2 per ton. Linseed meal was quiet, with resale lots available at concessions. Cottonseed meal was steady and unchanged.

Price Trends

Advanced

Beeswax, crude, African, 2c. per lb.
Cocoa butter, 2c. per lb.
Corn oil, crude, ⅛c. per lb.
Refd., ⅛c. per lb.
Fish oil, refd., ½c. per lb.
Refd., ½c. per lb.
Sperm oil, 1c. per lb.
Spermaceti wax, 1c. per lb.

Reduced

Carnauba wax, Ceara, crude, 1c. per lb.
Parnahyba, crude, 1c. per lb.
yellows, 1c. per lb.
Copra, $5 per ton.
Lard, cash, ¼c. per lb.
Linseed meal, expeller, 50c. per ton.
Olive oil, spot, 5c. per gallon.
Safflower, 3/10c. per lb.
Soybean meal, $2 per ton.
Tung oil, ¼c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Oct. 2, 1959
107.76	108.47	108.93	112.91

For Current Prices see page 8

Vegetable Oils

Castor—Moderate trading was noted for prompt delivery. Deliveries against contracts continued to move in good volume. No. 1 Brazilian was steady, ranging from 18½c. to 18¾c. per pound, tankcars, prompt delivery, according to seller. Domestic grades demand was spotty at unchanged quotations.

Imports of castor beans and castor oil at New York and Philadelphia last week were as follows:

	Pounds	
	Castor Beans	Castor Oil
Last week	.....	1,976,000
Previous week	10,950	1,134,000
Corresponding week, 1959	628,450	1,200,000
Total this year	3,353,450	67,940,000
Corresponding period, 1959	20,468,150	74,698,000

Coconut—Crude was quiet and fairly steady. Tankcars were unchanged at 12⅛c. per pound, f.o.b. Pacific coast for October delivery and 12c. November. The New York market was inactive and nominal at 13¾c., tankcars, prompt delivery.

Corn—Crude was firmer and slightly higher. Trading was light and took place at 12⅜c. per pound, tankcars, f.o.b. mills, prompt delivery. Refined oil was lifted to 16.10c. per pound, tankcars, New York basis.

Cottonseed—Futures were firmer and fractionally higher last week with the strength of soybean oil because of authorizations of 73,500 tons of soybean oil to Spain under PL 480 and 23,750 tons of cottonseed and soybean oils to Pakistan and Taiwan. This strengthened the crude oil market as well resulting in active trading. Heavy liquidation in October on Thursday however wiped out gains in that delivery, while deferred positions scored good gains. Refined salad oil was unchanged at 12½c. per pound, tankcars, New York, prompt delivery.

Trading was active in crude at 9¼c. per pound, tankcars, Valley and Texas and at 9⅜c. to 9½c. in the southeast.

Refined cottonseed oil disappearance in August totaled 2.122 tankcars compared with 1,955 in July and 1,583 in August last year. Visible supply was estimated at 4,434 tankcars, at the end of August against 4,125, August 1959.

The government report placed the cottonseed crush in August at 139,800 tons compared with 142,700 tons in July and 149,300 tons, August last year.

Linseed—This market was unchanged and steady. Good demand continued against existing contracts and terminated of contracts has increased trading for prompt requirements. Raw oil was held at 12½c. per pound, tankcars, Minneapolis, October-December delivery; 12.70c., January-March, same basis and 13.61c., f.o.b. New York.

Olive—Reports of a bumper olive oil crop in Tunisia created an easier tone for shipment from Spain and on the spot. Trading was reported still spotty. Production in Spain this season was reported smaller than last year because this is an off-year. Estimates place production around 350,000 tons compared with 500,000 tons last season. This was offset, however, by the larger Tunisian crop. Shipments from Spain were quoted at $52.50 to $54 per 100 kilos, drums, f.o.b. ports, prompt. Oil on spot was lower, ranging from $2.25 to $2.35 per gallon, drums, duty paid, depending upon quantity.

Peanut—Trading was quiet. Crude was unchanged at 15½c. per pound, tankcars, f.o.b. mills, prompt shipment. Refined oil was offered at 18¾c., tankcars, New York basis.

Peanuts crushed for oil and meal in August totaled about 14 million pounds against 18 million in July and 17 million in August 1959.

Safflower—New crop oil was available at 15¼c. per pound, tankcars, New York for October-December shipment, 3/10c. less than old crop. Drums were reduced to 17¼c. to 17½c., prompt delivery, according to quantity.

Soybean—Market was stronger reflecting the authorization for the purchase of 73,500 tons of soybean oil by Spain and 23,750 tons to Pakistan and Taiwan of soybean and cottonseed oils. Crude was higher and closed at 9⅛c. per pound, tankcars, Decatur, October delivery. Refined salad was raised to 11⅛c., tankcars, New York basis.

Soybean crush in August totaled 32,067,000 bushels compared with 31,377,000 bushels in July and 29,267,000 bushels, August last year. The total for eleven months October 1959 through August amounted to 365,450,000 bushels against 373,773,000 bushels for the same period last year.

Disappearance of crude soybean oil in August reached a record of 7,847 tankcars against 4,988 in July and 6,327, August last year. Total for 11 months (October-August, 1960) was 66,990 tankcars compared with 65,324 a year ago. Visible supply end of August was estimated at 6,229 tankcars against 6,153 last year.

Tung—Slow demand and increased offerings kept the market unsettled. Tankcars were freely offered at 22½c. per pound, tankcars, New York, prompt delivery with sales reported at ¼c. less on firm bids, depending upon seller. Drums were quoted at 24¼c. to 24½c. per pound, spot, according to quantity.

CCC sold 1,160,000 pounds of government owned tung oil at 15.01c. to 15.015c.

Cottonseed Oil Futures

Sales and prices of prime summer yellow cottonseed oil futures in tankcars (60,000 pounds) on the N. Y. Produce Exchange for the week ended Friday, September 30, follow:

	Sales	High	Low	Close
		Cents per Pound		
Oct.	347	11.61	11.35	11.57@11.60
Dec.	346	11.72	11.48	11.72S
March	314	11.80	11.49	11.76S
May	251	11.85	11.51	11.79S
July	155	11.89	11.53	11.82S
Sept.	1	11.65	11.57	11.70@11.80
Oct., '61	22	11.76	11.50	11.75 Bid

Total sales and switches, 1,436 contracts.

Oils, Fats and Waxes

per pound, bulk, f.o.b. Marrero, La. Bids were received for 2,590,000 pounds.

Miscellaneous

Cocoa Butter—Firmer tone prevailed. Market advanced 1c. Spot stocks ranged from 61c. to 66c. per pound, according to quantity.

Copra—Market was quiet and slightly lower. Prompt shipment was quoted at $162.50 per ton, c.i.f. Pacific coast and $160 bid.

Flaxseed—This market displayed firmer tone and closing prices advanced 5 cents to $2.95 a bushel, spot and to-arrive, basis Minneapolis. Market was extremely "edgy" and limited offerings often brought 2c. to 3c. over quoted level. Futures were sharply higher at Minneapolis and Winnipeg.

Fats and Greases

Greases—Steady tone prevailed in the market. Trading was spotty, but light offerings were firmly held. Choice white grease was quoted at 7¼c. to 7⅜c. per pound, tankcars, delivered and yellow at 4¾c. to 4⅞c., same basis, according to quantity.

Lard—Market was quiet and fairly steady. Cash lard was unchanged and nominal at 9¼c. per pound, drums, Chicago.

Tallow—While trading was light, the market was firmer, because of limited offers. Prices were unchanged and well held. Bleachable fancy was quoted at 5⅜c. per pound, tankcars delivered; prime, 5⅜c.; special, 5¼c.; guaranteed fancy, 5¾c. to 5⅞c. and No. 1, 4¾c. to 4⅞c., same basis. Export interest lagged. Guaranteed fancy was unchanged at 6¼c. per pound, bulk, f.o.b. and 7¼c., drums, f.a.s.

Cake and Meal

Cottonseed Meal—Trading was moderate for prompt requirements. Market was steady. Meal 41 percent was held at $57 per ton, sacked, Mississippi Valley; $58, Alabama and $59 to $60, Georgia-Alabama area.

Linseed Meal—Demand was extremely limited in this market and soft undertone persisted. Prices were unchanged but occasional cars were sold at concessions and re-sale meal was 50c. under crusher quotations Extracted meal, 34 percent was offered $50 a ton, bulk, in carlots, f.o.b., Minneapolis, prompt delivery; $51, last half October, and $53, November-December. Old process expeller meal was down 50c. at $56.50 for October and $59.50, November-December.

Soybean Meal—Pronounced weakness developed in this market, unrestricted meal dropping $1.50 a ton. Local shortage of soybeans due to rains during harvest provided bolstering influence. Meal, 44 percent was quoted $50 a ton, unrestricted, bulk, Decatur, for prompt shipment; $52, last-half October. Substantial quantities of October-December meal were sold at near spot prices.

Waxes, Vegetable

Continued slow demand for carnauba unsettled the local market, while the Brazilian market remained unchanged and firm. No. 3 Ceara and Parnahyba crudes were off 1c. per pound. Yellows also declined 1c.

Crude beeswax was scarce and stronger. African crude was in limited supply and higher at 54c. to 55c. per pound, spot, according to seller and quantity. Refined grades also were firmer.

Spermaceti wax was stronger and advanced 1c. per pound because of the scarcity and higher cost of the oil. Blocks were lifted to 32c. to 33c. per pound and cakes, 33c. to 34c., on the spot.

Coatings Materials

—*Continued from page 53*

by the Tariff Commission at 2,894,226 pounds in July. For June TCP production was estimated at 3,174,744 pounds.

Miscellaneous

Casein—The market for imported casein continued on the quiet side, according to reports from the trade. Prices held fairly closely to the levels established a week earlier. Stocks, for the most part, were reported to be unchanged.

Latest quotations for Argentine casein are in the range of 18¾c. per pound. Polish is at 18½c. per pound. Offers of Australian were reported to very few, if any at all.

Naval Stores

Rosin, Gum

(USDA, per 100 lbs.)

	Fri. Sept. 23	Mon. Sept. 26	Tues. Sept. 27	Wed. Sept. 28	Thurs. Sept. 29
Drums—					
M	$16.50	...	...	...	...
N	...	...	...	$16.75	...
WW	17.12	...	...	...	...
Bags—					
M	...	...	...	16.55	...
N	16.75	$16.75	...	16.55	...
WG	...	...	...	16.09	...
WW	...	...	...	17.05	...

Tankcars (for week ended Sept. 30)—
K or better, $15.60

Sales, USDA

766* 5‡ ... 5‡ ...

New York
(Per 100 lbs., c.l., Friday)
K-M, $17.75; N, $17.85; WG, $18.10; WW, $18.25

Turpentine, Gum

(USDA, per gal., 7.2 lbs.)

Price	.70	.46 5/10	.45 1/10	...	.45 8/10§
Sales	...	1‡¹	8,000¶	6,000¶	... 16,000¶

* Drums equivalent. ‡ Carlots. ¶ Gallons. § Average price. ¹ Export.

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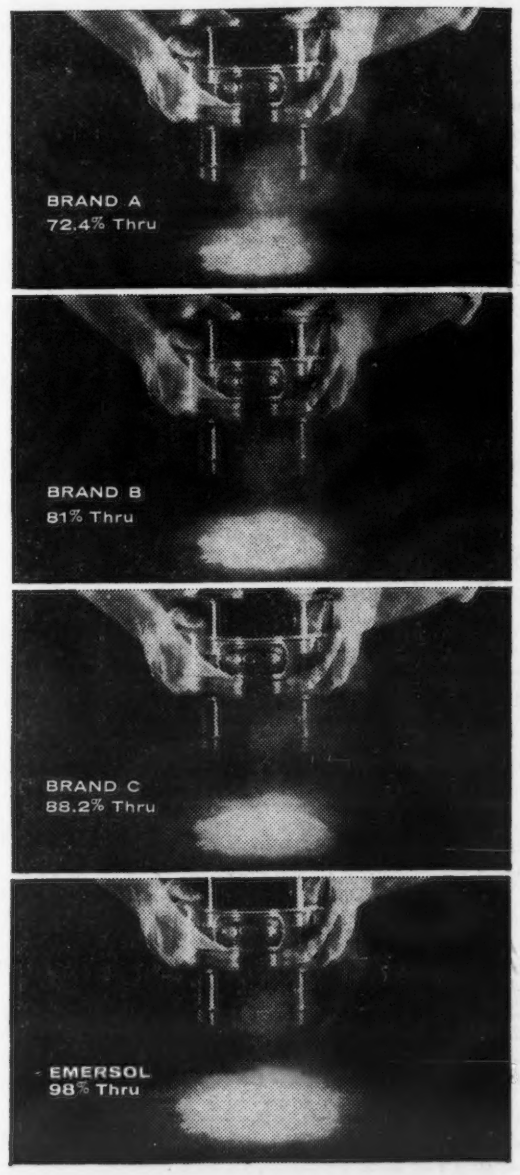

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1—Bird 32" x 50", Solid Bowl, Continuous, 316 S.S.
3—Sharples PY14, PN14 Super-D-Canters 316 S.S.
1—Tolhurst 26" susp. Rubber Imperforate Basket.
2—Fletcher 48" Suspended 316 S.S. Perforated Basket.
2—Sharples #16, 304 S.S., 3 HP motor.

REACTORS — EVAPS — CONDS — TANKS

1—150 gal. 304 S.S. jacketed agitated Reactor.
3—Pfaudler 200 gal. glass lined jacketed Kettles.
1—650 gal. 304 S.S. Reactor with 100 sq. ft. Bayonet Heater.
1—1400 gal. Blaw-Knox, steel, jacketed, agitated Reactor.
1—700 sq. ft. Buflovak 304 SS forced circulation Evaporator.
1—550 sq. ft. Buflovak monel single effect Evaporator.
1—7500 gal. 316 S.S. Vert. Storage Tank, 7'x25', 50 psi.
1—500 gal. S.S. Mixing Tank with nickel coils.
1—4000 gal. Haveg Vert. Tank 8'x12'.
6—7500, 6000 and 2000 gal. Rubber Lined Tanks.
1—1500 gal. Stainless Pressure Tank, 5'x10', 90#.
2,000 gal. horiz. 304 S.S. tank 5' x 12'.
1—12,000 gal. horiz. steel Pressure Tank, 7'6"x36', 200 psi.
6—Stainless Heat Exchangers; 1220, 786, 536, 370, 315, 250 sq. ft.
1—Falls Industries 100 sq. ft. Karbate Condensor.
1—24" dia. x 35', 304 S.S. Bubble Cap Column.

FILTERS

1—#5 Sweetland Filter 304 S.S. 120 sq. ft.
1—Oliver 6' dia. Horizontal Filter, 316 S.S.
1—Oliver 5' x 6' Steel Rotary Vacuum Precoat Filter.
1—U.S. 200 sq. ft. 304 S.S. Auto-Jet Filter.
1—Oliver 5'3"x8' Steel Rotary Vacuum, vaportite housing.
1—Eimco 18" x 12" 316 S.S. Rotary Vacuum Filter with pumps and piping.
1—Oliver 3' x 2' 347 S.S. Rotary Vacuum Filter.
1—Feinc 5'x6' Stainless Steel Rotary Vacuum Filter.
2—#10 Sweetland Filters, 27 leaves, 4" centers, 250 sq. ft.

DRYERS

1—Buflovak Vacuum Shelf with 20—60"x80" shelves.
1—Devine Vacuum Shelf with 19—59"x78" shelves.
1—Devine Vacuum Shelf with 10—40"x43" shelves.
2—Buflovak 42"x120", atmospheric double drum Dryers, complete.
2—Devine 4'x9', single drum, atmospheric.
1—Buflovak 3'x10' Rotary Vacuum Dryer.
1—Baker Perkins 5'6"x6' Rotary Vacuum Dryer.
2—Buflovak 5' x 30', 3' x 7'6" Rotary Vacuum Dryers 316 S.S.
2—Louisville Rotary Steam Tube 6'x25', 6'x50'.
2—Louisville 8'x50' Stainless Steel lined Rotary Dryers.
9—Rotary Dryers 34"x30', 4'x40', 6'x50', 6'x60', 7'x80', 8'x87'.
1—Traylor 30"x18' Stainless Steel Rotary Dryer.
2—Link Belt, 7'5"x25', 6'4"x24", S.S. Louvre Dryers.
2—Atmos. Tray Dryers, 16 shelves, 40"x24".
1—P&S 10' wide Apron Conveyor Dryer 48' long.
1—4' dia. 304 SS Spray Dryer.

MIXERS

1—Farrel-Birmingham "Midget" Banbury Mixer.
2—Day Imperial 150 gal. jktd. double arm.
1—Baker Perkins 100 gal., jacketed, double arm, 30 HP.
1—Baker Perkins #16TRM, 150 gal. jktd., Vac. 60 HP.
1—Baker Perkins 50 gal. jacketed, double arm.
1—Baker Perkins 10 gal. jacketed 304 S.S. double arm.
5—Day "Cincinnatus" double arm, 250 and 100 gal.
2—Steel jacketed Powder Mixers, 225 and 350 cu. ft.
1—Patterson 6' dia. Conical Blender 15 HP.
1—3' dia. Simpson Intensive Mixer.
1—Stokes 21K, 304 S.S. Granulating Mixer 82 gals.

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1—Farrel Birmingham, 8" x 16", 2 Roll Chrome Plated Mill.
3—Mikro Pulverizers 1 SH, 1 SI and Bantam.
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3—Abbe 2½' x 3' porcelain lined Pebble Mill XP motor.
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3870M-2—Mojonnier Stainless Vacuum Pan 3' x 10'.
4627 H1—Mojonnier Stainless Vacuum Pan; 6' x 12'; Vertical Counter Current S.S. Condenser; 261 sq. ft.
4767 W1—Harris Stainless Vacuum Pan 6' diameter with coils, barometric condenser and accessories.
5051—Blaw Knox Stainless Lab. Reactor; 5 gal.; Agtd.; 150 PSI ASME.
5048 D1-2-3—Struthers Wells Type 316 Stainless 2000 gal. Vertical Jacketed, Agtd. Reactors.
5255 F1-2—Two MONEL Reactors 2800 gal. 6'8" x 13' with ASME Jacket and Internal 175 PSI; Turbine Agitators.

EVAPORATORS — KETTLES — TANKS

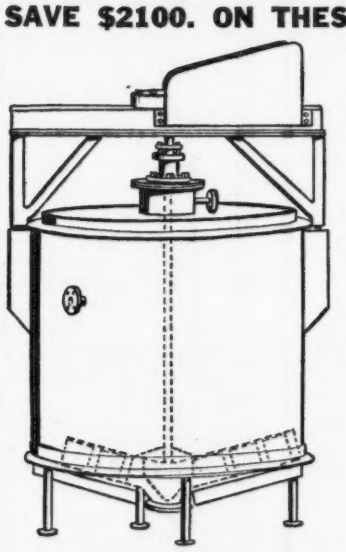
3750—Zaremba Double Effect INCONEL Evaporator with calandria; 430 sq. ft. of surface; with accessories.
3870 M2—Mojonnier 3' dia. S/S Calandria Evaporator; 30.5 sq. ft.
5020 S5—Vertical Stainless Lined Mixing Kettle 40 gal. 24" x 21" with Stainless Heating Coils and Agitator.
5020 S8—Stainless Lined 100 gal. Mixing Kettle; 32" x 30" with 6 turns of S/S Heating Coils and Agitator.
3340—Brand NEW Stainless Steel Kettles good for 100# always in New York stock; sizes up to 500 gal.
3994 K4—Stainless Steel Vacuum Still; Coil Htd. 755 gal. 4'6" x 6'; with Aluminum Column.
4840 B36—Electrically Heated 800 gal. Stainless Steel Kettle 60" x 60".
4886 D6—Stainless Steel 500 gal. Vertical Jacketed Agitated Kettle 48" x 67".
4840 B37—Stainless Vertical Kettle 5' x 8'9", 1300 gal. set in a cooling jacket.
5048 D1-2—Struthers Wells Type 316 Stainless Vertical Mixing Kettles, 2000 gal. 6' x 10' Jktd. and Agitated.
5128 M1-2—Two Pfaudler Stainless Steel Jacketed Evaporating Dishes; 6' x 30".
4737 A15—800 gal. closed S/S Tank; 51" x 118"; Coned Bottom; 24" Manhole.
5123 C1-2—Two Horizontal Type "C" Versators in Type 316 Stainless with 20 H.P. Motors.

MIXERS — ALL TYPES

5250—Readco Jktd. Stainless Steel Dbl., Arm Mixer; 15 gal.; 15 HP.
5223 C-3-4—Two Lehmann Amalgamators; Stainless Lined; 32" x 44" x 36"; Stainless Arm; 7½ HP.
5070 F4—Stainless Steel Double Arm Vacuum Mixer; 150 gal.; 44" x 44" x 36" with cored blades; 40 HP
4702 B1—J. H. Day Cincinnatus Stainless Steel 300 gal. Jacketed Double Arm Mixer.
5070 F1-2—Stainless Lined Double Sigma Vacuum Mixers 300 gal. 56" x 50" x 44"; with 60 HP Motors.
1793 D8—J. H. Day 2½ gal. Pony Mixer; Stainless Paddles and Can; ½ HP motor.
4305 P3—Baker Perkins Cascade Mixer Installation; fully jacketed 250 PSI; Type 316 Stainless.

FIRST'S WEEKLY FEATURES

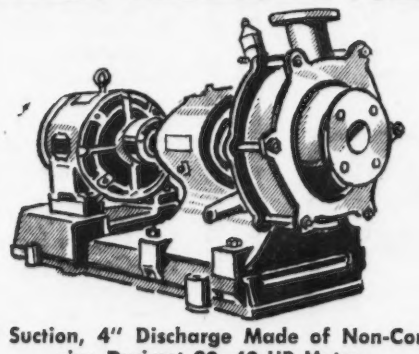
SAVE $2100. ON THESE HEAVY STAINLESS REACTORS



500 gal. 5'x5' ¼" Thick Stainless Bolted Top-Manhole Rake Type Agitator Thru Stuffing Box. Dorrco Made.

COMPANION FEATURE

SAVE $2000. ON UNUSED DURIMET CENTRIFUGAL PUMPS



6" Suction, 4" Discharge Made of Non-Corrosive Durimet 20; 40 HP Motor.

COLLOID MILLS
(Homogenizers, Viscolizers, etc.)

3961 E1-7—Premier Stainless Colloid Mills Type U3; 6"; 15 HP motors.
4827 N3—Cherry Burrell Stainless Sanitary Homogenizer Size 1500; with 25 HP Motor.
4703 G2—Chemicolloid Stainless Steel Colloid Mill Model A 15 with 15 HP Motor; 3525 RPM.
4510—Marco Stainless Homogenizer No. 400 Capacity 750 GPH.
5029 Two Stainless Flowmaster Kombinators Model #200.
5347 Tri-Homo Disperser in Type 316 Stainless; 10 HP.

FMC Pays MORE For Your Surplus FMC

DRYERS — ALL TYPES

5161 B7—Bowen Stainless Steel Spray Dryer; Table Model; 30" x 32".
4055 E2—Nickel Plated Drying Drums 4' x 4'.
3303—Type 316 Stainless Drying Drum; 32" x 52".
4690—Stainless Lined Rotary Counter Current Atmospheric Dryer; 50" x 20' with Oil Burner, Combustion Chamber, etc.
4819 M4—Louisville Stainless Rotary Dryer 30" x 28'; Ind. fired.
5147 S18—Jacketed Rotary Dryer or Roaster; 42" x 12'; Monel shaft and Blades.
5260—Louisville MONEL Rotary Steam Tube Dryer; 54" x 35'.
5161 B8-9—Two Stainless Concentrators; each has Bank of 4 Rotary Vac. Continuous Jacketed Dryers, 2' x 10'; 20 HP.

CENTRIFUGALS CLARIFIERS — SEPARATORS

4926—Squier 30" Suspended Stainless Steel Centrifugal with perforate basket.
5190 D4—A. T. & M. 30" Susp. Centrifuge in Stainless; 2 Speed.
4093 B11—A. T. & M. Susp. Centrifugal; 40" x 24"; Solid Bowl; Bot. Discharge.
5230 L1—Western States Model UD Centrifugal in Type 316 Stainless; 36" x 20"; Vapor Tite; Automatic Loading
4331—Tolhurst Suspended Self Bal. MONEL 40" Centrifuge; Rub. Lnd. Curb 7½" HP.
C5-B200—A. T. & M. 40" Stainless Suspended Centrifugal perforate basket; bottom dump; 40 HP motor.
4750V—A. T. & M. type 316 S/S Vacuum & Pressure Hoods, 60"; link suspended; 15 HP 2 speed motor.

FILTERS

3317—Bird Young Rotary Vacuum Filter; 4' x 4'; Stainless Screens.
5122 M4—Oliver Pressure Pre-Coat Filter 5'3" x 8' in Stainless.
5147 S1-2—Oliver Pre-Coat Panel Type Acid Resistant Vac. Filters 8' x 8' and 8' x 10' complete.
4692 D1-2—Two Oliver Monel Precoat Continuous Rotary Pressure Filters, 3' x 2' with all accessories.
2729—Oliver Dorrco Rot. Vac. Filter 6' x 3' with nickel parts.
F15-193—Stainless Lined 5'3" x 8' Oliver Cont. Vac. Filter Complete.
4685 B1—Feinc Stainless Rot. Vac. Filter; 5' x 6'; String Discharge.
4870 N2—Sparkler Stainless Steel Filter; Model No. 14-S-4.
5092 G4—Sparkler Mild Steel Filter Model 33-14.
5146—Sparkler Jacketed Filter Model 33 S 17; scavenger plate.
4931 L2-3—Two Alsop Stainless Filters Model SD8; 250 GPH complete with Pump and Motor.

RECENT OUTSANDING PURCHASES

Royle No. 1 Extruder (2") elctr. heated.
6 Stokes Self Contained Molding Presses, 150 ton; Hydr. Pump System.
3 Stokes Model 280 Preform Presses.
2 Sharples S/S Super-D-Canters PN14.
S/S Lab. Drum Dryer; 8" x 11½".
Feinc S/S Rot. Vac. Filter, 3' x 1'.
Baker-Perkins 5 gal. Double Arm Mixer UNE-7, Pressure Cover, 30 HP.
4 Pressure Filters; Type 316 S/S 30" x 56"; 1000 sq. ft. Surface.
Buflovak S/S Thermo Recompression Sanitaru Evaporator; accessories.

FIRST MACHINERY CORPORATION

209-289 TENTH STREET, BROOKLYN 15, N. Y. • STerling 8-4672

ANOTHER PERRY
LIQUIDATION
$8,000,000 ALCOHOL PLANT
OMAHA, NEBRASKA

MAJOR ITEMS

DRYERS

8—Buflovak 42" x 120" double drum dryers, ASME 160# WP.
2—Bonnet 7' x 60' rotary hot-air dryers, ⅝" shell, complete.
2—Bonnet 6' x 52' rotary hot-air dryers, 5/16" shell, complete.

PRESSURE LEAF FILTERS

2—Sweetland #12, (24) 36" dia. leaves, 336 sq. ft.
6—Shriver 48" cast iron P. & F. filter presses, 50, 48 & 40 chambers, hydraulic closure.
1--Sperry 30" cast iron P. & F. filter press, 30 chambers.

PRESSES

4—Davenport #2A dewatering presses, vari-drive, motor, etc.
3—Davenport #1A dewatering press, vari-drive, motor, etc.
2—French Oil screw type extraction presses, 60 HP.

EVAPORATORS — HEAT EXCHANGERS — STILLS

2—Quadruple effect evaporators, calandria type, 4050 sq. ft. cast iron bodies & copper tubes. With 1230 sq. ft. horiz. copper preheaters & 2450 sq. ft. finishing pans. Total 19,900 sq. ft. each evaporator.
6—Ansonia 691 sq. ft. horiz. dbl. pipe coolers, copper tubes.
3—American 654 sq. ft. spiral steel heat exchangers.
18—Tubular heat exchangers, copper tubes, 1500, 1350, 1130, 637, 380, 290, 184, 176, 156 sq. ft.
2—Acme 96" dia. x 44' high copper beer still columns, (20) perforated & (4) bubble cap trays.
5—Leader 96" dia. steel rectifying columns, 44' & 51' high, bubble cap trays.

MISC.

2—DeLaval 48" multi-matic centrifugal separators.
4—Wallace & Tiernan auto. bulk-handling scales.
8—Davenport 5' x 25' inclined "slop" dewatering screens.
4—Lightnin' #SAG-2506 S. E. agit., 25 HP TEFC.
2—Aldrich triplex plunger-type pumps, steam driven.
2—9500 gal. horiz. steel cookers, ½" shell & dished heads.

Plant Facilities for Lease—
Barge, Rail, Truck, Water, Available

SEND FOR DETAILED CIRCULARS!

CLOSING OUT
TYPE 316 STAINLESS STEEL EQUIPMENT
ORANGE, TEXAS

Additional Savings If Bought Before Removed

1—Struthers-Wells T316 SS 3500 gal. jktd. reactor, paddle agit., 300 sq. ft. int. coil.
1—Vulcan 110" dia. x 13' high, T316 SS bubble cap scrubber.
1—Vulcan 96" dia. x 37' high, T316 SS bubble column.
1—Vulcan 72" dia. x 46'-10" high copper bubble cap column—VACUUM.
1—Vulcan 60" dia. x 13' high T316 SS bubble cap scrubber.
2—Sharples #C-20 Super-D-Hydrators, T316 SS.
1—Sharples #16-P Super Centrif., T304 SS.
1—Struthers-Wells 630 sq. ft. Evaporator, T316 SS.
3—Worthington 160 ton steam-jet VACUUM refrigeration units, w/baro. condenser, etc.
2—Read 1800 cu. ft. weigh hoppers, T304 SS.
10—T316 SS tanks: 2750, 2500, 2300, 2250, 2100, 1900 gal.
30—T316 SS heat exchangers; 2000 sq. ft. to 54 sq. ft. sizes.

SEND FOR CIRCULAR #1259-A

PERRY EQUIPMENT CORP.
1407 N. SIXTH ST., PHILA. 22, PA.
Phone: POplar 3-3505

LIQUIDATING
Ten Million Dollar Chemical Plant
NORTH JERSEY AREA
Type 316 Stainless Steel Equipment

7—Alloy Fabricators Type 316 SS pressure vessels, 4500 gals., complete with agitators and drives, 45 psi.
2—Alloy Fabricators Type 316 SS, 4500 gals., jacketed reactors, complete with agitators and drives.
2—Alloy Fabricators Type 316 SS, 1000 gals., jacketed kettles, ⅜" material throughout.
12—Whitlock Type 316 SS pressure vessels with coils, 270 gals.
3—Type 347 SS pressure vessels with coils, 300 gals.
3—Type 316 SS mixing tanks, 6000 gals., complete with agitators and drives.
8—Acme Type 347 SS settling tanks with cone bottoms, 1000 gals.
1—2600 gals., Type 316 SS vertical vacuum receiver.
3—Vertical Type 316 SS activated carbon absorbers, 5'4" dia. x 16'.
1—Struthers Wells Type 316 SS, 500 lbs. pressure vessel, 75 gals., ASME code, National Board.
2—Project Fabricators Type 316 SS vacuum receivers, 160 gals.
2—Pfaudler 500 gals., glass lined jacketed kettles.
1—Pfaudler 20 gals., glass lined vacuum receiver.
1—Haveg 500 gals., vacuum receiver.
2—Aluminum horiz. 5000 gals., storage tanks.
5—Pfaudler horiz. glass lined storage tanks, 5000 gals.
1—Pfaudler vertical glass lined storage tank, 5000 gals.
2—Rubber lined tanks, 2500 gals., working pressure 45 lbs.
4—Rubber lined horiz. storage tanks,5000 gals.,working pressure 45 lbs.
16—Rubber lined vertical storage tanks, 4500 gals., working pressure 45 lbs.
4—Patterson Kelley SS condensers, 500 sq. ft.
7—Stainless steel condensers from 50 to 300 sq. ft.
4—Stainless steel packed columns, 18" x 15'.
2—Shriver 18" x 18" SS plate and frame filter presses, 10 chambers.
5—Shriver 42" x 42" wood plate and frame filter presses, complete with hydraulic closing device, 30 chambers.
7—Buflovak Type 316 SS jacketed rotary vacuum dryers, 5' x 30', complete with 25 HP explosion proof motors and drives.
3—Type 316 SS Ter-Meer continuous type centrifuges 4' dia. bowls complete with motors.
3—Readco SS jacketed horiz. blenders, complete with explosion proof motors and drives.
3—Mikro #3TH SS pulverizers, complete with 40 HP explosion proof motors.
1—Mikro SS bantam pulverizer, Model CF, complete with 3/4 HP explosion proof motor.
3—Gruendler SS, lab size, pulverizers.
2—Nash, Model HS-6, Hastelloy B vacuum pumps, with 25 HP motors.
3—Nash, Model HS-6, Type 316 SS vacuum pumps, with 25 HP motors.
3—Nash, Model TS-12, vacuum pumps, with motors.
1—Stokes Type 316 SS, jacketed, rotary vacuum dryer, 2' x 3'.
14—Copper jacketed mixing kettles, 3500 gals. each.
14—Copper jacketed rotary vacuum dryers, 8' x 10'.
5—American Type 316 SS blowers, Model MD, size 27".
6—200 gals., Type 316 SS vacuum receivers.
1—Fuller Type 316 SS, airveying system.
1—Aldrich Type 316 SS hydraulic triplex pump, size 2-3/4"x4", 500 psi.
1—Quimby Type 316 SS twin screw pump with 10 HP variable speed drive.
2—Powell Type 316 SS 10" hydraulically operated flanged gate valves.
2—Tyler Type 38 tandem SS Hum-Mer screens, size 42" x 9'-8".
50—Stainless steel and aluminum hoppers, all sizes.
100—Stainless steel centrifugal pumps, all makes and sizes.
3—200 gals., Type 316 SS jacketed kettles.
12—Type 316 SS Cyclone separators, 5'-2" x 10'-8" overall.
500 Tons of Type 316 SS pipe, fittings and valves, ranging from 2" to 6".
500 Tons of structural steel.
12—125 HP vertical agitator drives with Philadelphia drive, output speed 15.
2—150 HP vertical agitator drives with Philadelphia drive, output speed 15.
16—40 HP horizontal drives.

Our 75th Year

R. GELB & SONS, INC.
EST. 1886
UNION, NEW JERSEY **MUrdock 6-4900**

EQUIPMENT
for CHEMICAL AND ALLIED INDUSTRIES

1—Cleveland SS double cone blender, complete with drive and motor, 85 cu. ft.

1—Griscom Russell stainless steel heat exchanger, 900 sq. ft.

3—Davis Engineering Carpenter 20, heat exchangers, 120 sq. ft., NEW.

20—Davis Engineering SS heat exchangers, 102, 119, 136 and 166 sq. ft., NEW.

3—Badger type 316 SS heat exchangers, 500 and 600 sq. ft.

1—Downington type 316 SS heat exchanger, 750 sq. ft.

1—Cleveland double ribbon horizontal blender, jacketed, 65 cu. ft.

1—Baker Perkins Size 16 TRM, 150 gal. jacketed double arm sigma blade mixer with vacuum cover.

10—Robinson SS double ribbon blenders, 255 cu. ft.

1—Banbury #1 mixer, chrome plated rotor, with 50 HP motor.

1—Williams "Comet" 4 roll mill, complete.

1—Tolhurst SS 26" center slung centrifuge, with perforate basket.

8—Western States 40" type 316 SS suspended type centrifuges, complete with perforated baskets, plows and 40 HP motors. Year built 1953.

4—Tolhurst 40" center slung rubber covered centrifuges, with perforate baskets and motors.

4—Tolhurst 30" center slung rubber covered centrifuges, with perforate baskets.

1—AT&M SS 40" suspended type centrifuge, complete with plow and perforate basket.

1—AT&M SS 26" suspended type centrifuge, complete with plow and motor, with perforate basket.

3—Pfaudler type 316 SS jacketed reactors, with impeller type agitators, baffles and drives, 3, 5 and 50 gal.

1—Pfaudler glass lined 1000 gal., vertical storage tank.

2—Struthers Wells type 316 SS 2000 gal. jacketed reactors, complete with agitators and drives.

1—Sharples Super-D-Canter, PN-14.

2—Stainless steel open top kettles, 2500 gals.

1—Buflovak SS rotary vacuum dryer, 3'x15'.

1—Buflovak steel jacketed rotary vacuum dryer, 3'x15'.

1—Stokes steel jacketed rotary vacuum dryer, 5'x30'.

2—Hersey SS rotary dryers, 18"x 11'6" and 3'x16'.

1—Niagara SS filter Model 510-28.

1—Oliver SS rotary vacuum precoat filter, 3'x2'.

1—Oliver SS rotary vacuum pressure precoat filter, 5'3"x8'.

1—Oliver SS rotary vacuum precoat filter, 3'x4'.

4—Sperry SS filter presses, P&F, 24"x24", 12 chambers, closed delivery.

1—Stainless steel bubble cap column, 4' dia. x 25 plates.

1—Stainless steel packed column, 18"x9'.

1—Pfaudler glass lined jacketed reactor, 100 gal., complete with impeller type agitator and drive.

R. GELB & SONS, INC.
UNION, NEW JERSEY Est. 1886 MUrdock 6-4900

MACHINERY ANYONE?

1—Sharples Super Centrifuge, Type M318-28-5-80A, motor driven, with dual rotary Pumps.
1—Roots-Connersville Rotary Positive Blower, Size 14x21, cap. 1690 c.f.m., 5# pressure.
2—Jeffrey 24x18", Type A2 Hammer Mills.
1—Kent 12x30" watercooled Roller Mill, m.d.
1—Duriron 2x2" Centrifugal Pump, 5 h.p. mtr.
1—Lydon 3 truck Atmos. Dryer.
1—#3 Banbury Mixer, 75 h.p. motor.

WHAT ARE YOU LOOKING FOR?
WHAT DO YOU HAVE FOR SALE?

BILL WOLF, Inc.
2708 CAROL ROAD UNION, N.J.
MUrdock 6-8883

EQUIPONOMICS

BIRD Continuous Centrifuges 18" x 28" 316 S.S. (1952) 15 H.P. Washing
OLIVER VACUUM FILTER—S.S. 316, 3'x6'
COLUMN S.S. 4' D x 65' high, 55 plates.
TANKS S.S. 304, 2500 gal. 7' x 8' new.
MIKROPULVERIZER—2TH—7½ H.P.
KNEADER MASTER — Paterson 2½ gal. vac., jack., variable speed (Inf.)
HEAT EXCHANGERS S.S., 60 to 2300 sq. ft.
CENTRIFUGE—Tolhurst 40" rubber lined, centerslung, 5 H.P.
SPARKLER FILTER—Steel, Model 33-17.

PROCESS PLANTS SERVICE, INC.
287 Central Ave., Clark, N.J. Tel. FUlton 1-1193-4

BEST BUY

ST. REGIS BAG FILLER

3 spout Model 107 FC with plow seats. 25 HP Ex Proof Motor. Impeller type valve feeder. Bucket Elevator.

EXCELLENT CONDITION

ME MACHINERY AND EQUIPMENT CO.
123 Townsend St., San Francisco 7, Calif.

2—OLIVER PRESS. PRECOAT FILTERS 5'3" x 3'—Type 316 S.S.
4—RIBBON BLENDERS, 2500 gallons, 1350 gallons.
2—AUTOCLAVES S.S., 50 gal. 2000 lb., 3½ gal. 2000 lb.
1—DRUM DRYER, Proctor & Schwartz.
4—COLLOID MILLS, 5 HP EX-PR, 1 HP, 15 HP, 40 HP.
1—#4 MICRO PULVERIZER.

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Modern Rebuilt Machinery

UNION Rebuilt Machinery Established 1912

At Bargain Prices

Baker Perkins and Day 50 and 100 gal. Stainless Steel Double Arm Mixers.
Day 50 gal. Gearless Pony Mixer.
Kent 5 Roll High Speed Mill.
Sperry & American Seitz Stainless Filters.
Knapp Wraparound Labeler.
S & S. Models HG84 and HG88 Automatic Powder Fillers.
Stokes & Smith 90D Auto. Tube Filler.
Colton 6 ft. Stainless Steel Blending Pan.
Mikro Pulverizers, 1SH, 2TH, 3TH, 4TH.
PACKAGING—Pneumatic Scale Lines with Tite Wrap. Palmer Box Forming Machines. Ceco Sealers. Standard Knapp, A-B-C, Ferguson Carton Sealers.
WRAPPING—Package Machinery, Hayssen, Battle Creek, Scandia, Campbell, Wrap King, Pak-Rapid. All sizes and models.
OVER 5,000 MACHINES IN STOCK—Mixers, Labelers, Dryers, Fillers, Sifters, Grinders, Cappers, Pulverizers, Packaging Machines, Carton Sealing Machines.

Complete Details & Quotations on Request

Union Standard Equipment Co.
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163-167 N. May St. Chicago 7, Ill. SEely 3-7845

BUY with Confidence

OUTSTANDING MACHINERY-RIGHT NOW! WHEN YOU NEED IT!!

2—Fitzpatric comminuting mills, models D and K.
2—Vertical stainless steel tanks, 1200, 1000 gallons.
1—Porter 4'6" double cone blender, 29 cu. ft.
1—Buflovak 42" x 120" double drum dryer.
1—40" suspended centrifuge, perforated rubber lined basket.
5—Pebble mills, 400, 250, 100, 50, 15 gallons.
1—Sharples Super-D-Hydrator, stainless steel basket.
1—Hersey steel hot air rotary dryer, 1½' x 16'.
1—24" x 18' type 347 stainless steel stripper column.
2—Stokes rotary vacuum dryers, 2½' x 8', 18" x 42".
1—400 gallon stainless steel jacketed and agitated reactor.
1—33 cu. ft. stainless steel double spiral ribbon blender.

Write or Phone Your Inquiries

chemical & process machinery corp.
52 Ninth St. Brooklyn 15, N.Y. HYacinth 9-7200

CHOICE EQUIPMENT

1—Hercules 16" x 16" Stainless Steel Filter w/24 plates & frames.
4—Hercules 8" x 8" Stainless Steel Filters w/12 plates & frames.
5—Shriver #1 and "OO" Diaphragm Pumps.
1—Stainless Steel 30 gal. Autoclave 1000 psi w/Jacket & Agitator w/XP Motor.
1—Cyclotherm Package Boiler 250 psi, 600# hr.—20 HP.
4—Stainless Vacuum Receivers 50 to 100 gals.
8—Jack. Stainless Kettles 70 to 100 gals. and 200 gals. Closed.
1—Horiz. Spiral Mixer, 3' x 12', Jacketed.
3—Spiral Blenders, 800 to 2000#.
1—Patterson 5' x 6' Jack. Ball Mill 25 HP.
1—Raymond #3036—3 Roll High Side Mill.
1—Stainless Steel Tank 3000 gals.
1—Stokes Drying Cab. #38—16 shelves.
1—N. J. MX Pony Labeler.
1—Rotex 60" x 84"—S. S. Screen.
3—Screens 40" x 84" & 30" x 96".
1—Sturtevant 2" x 6" Open Door Lab. Crusher.

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We Buy Single Items to Complete Plants
Send Us Your Lists

THE MACHINERY & EQUIPMENT CO.
91-93 New Jersey R.R. Ave., Newark 5, N. J.
Market 2-3103

Business Wants and Offers

RATES PER INSERTION—PAYABLE IN ADVANCE (Not Subject to Agency Commission)

ALL CLASSIFIED ADVERTISEMENTS—$8.00, thirty-six words or less; $1.50 for each additional six words or fraction.

NO DISPLAY—First two words printed in bold face type.

COPY DEADLINE—Wednesday Noon Preceding Date of Publication

Send replies to ads with box numbers to
OIL, PAINT AND DRUG REPORTER, 30 *Church St., New York 7, N. Y.*

DISTRIBUTORSHIP WANTED

Our company has long established national sales representation to the paint, plastic, printing ink and other protective and decorative coating industries. We want additional items on exclusive basis. We are willing to make a substantial investment if necessary. OPD 130.

EQUIPMENT WANTED

Filters stainless steel, Horm. St-80, St-160-B or St 135-B, Ertel—8D or EBD Series, Seitz—Screened Stainless Steel, Powder Filler-Stokes EG-1 or comparable filler. OPD 127.

Wanted To Buy. Used laboratory sigma blade dispersion mixer, one pint working capacity. Used laboratory 2-roll rubber or plastics mill. Waterlac Finish Co., Inc., 120 Andover St., Danvers, Mass.

FACILITIES OFFERED

Distillation facilities available. Open time on 5 million gals. annually. North Jersey. Toll basis or will purchase your crudes. Long term lease of plant also considered. OPD 132.

MATERIALS OFFERED

Pyridine Substitute. Industrial By-Products & Surplus Co., 40-40 Lawrence St., Flushing 54, N. Y. IN 1-4100. Contact A. Baldi.

Schippach Ball Clay surplus of 100 Tons for sale, packed in wooden kegs $25/Ton F.O.B. OPD 128.

MATERIALS WANTED

Wanted: Reliable supplier of pyrazolones and/or substituted Phenyl Hydrazines for substantial industrial outlet. Need supplier or chemist with mfg info. OPD 131.

We will purchase your crude coal and water gas tar, can take your entire output. Will make contract attractive to you, P. S. Kramer Inc., 7 Smith Street, Paterson, N. J.

Pest Controllers to Meet

National Pest Control Association has started advance registration for its twenty-seventh annual convention, slated for October 17-20 in Tulsa, Okla.

Aluminum Condenser, 350 sq. ft.
4—24" Filter Presses, Stainless Steel fittings, wood frames.
Lapp Fittings, Valves.
1—Procter & Schwartz finned Drum Drier.
Continuous Stripping Column 2 x 13.
Aluminum Evaporator, Calandria type, 1300 sq. ft.
Ribbon Blenders, Hydraulic Pumps.
MACHINECRAFT CORP.
800 Wilson Avenue, Newark 5, New Jersey
Mitchell 2-7634

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PULVERIZER—3 HP #00 Sturtevant—10HP 2TH Mikro—30 HP Raymond—50 HP 3TH Mikro (unused).
DUST COLLECTOR—Mikro Model 36-1-84—Sly 43"x77"x73½" H-459-D.
SCREENS—12"x72" S/S—20x84 Rotex—20x96 Rotex—3x5, 3x10 Tyler Hummer—30x68 Jeffrey.
MIXERS—1 c.f., 20 c.f. double cone—30 c.f. Patterson Kelly—12 c.f., 22 c.f. Ribbon—40 gal. S/S Pony—60 gal. Post—1 HP 1150 RPM Lightnin'.
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Centrifugal: Tolhurst 26" rubber. 2-speed.
Filter: Sweetland #5 st. st. lined.
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ACENAPHTHENE—4 dms, G A Abood Co, Rotterdam
AGAR—100 cs, S B Penick & Co, Pusan
ALBUMIN—300 bgs, P A Gayner, Rotterdam
ALUMINUM PASTE—100 dms, Crescent Bronze Powder Co, Hamburg
ALUMINUM POWDER—25 dms, Crescent Bronze Powder Co, Hamburg
ALUMINUM SULFATE—280 bgs, Bremen
AMMONIUM BICARBONATE—150 bgs, Chemical Manufacturing Co, Liverpool
AMMONIUM CARBONATE—110 cs, American British Chemical Supplies, Glasgow
80 cs, American Agricultural Chemical Co, Glasgow
AMMONIUM CHLORIDE—300 bgs, Chemical Manufacturing Co, Liverpool
AMMONIUM PERSULFATE—100 dms, Bankers Trust Co, Rotterdam
ANILINE DYES—141 dms, Sandoz Inc, Havre
16 dms, Arondy Corp Liverpool
3 dms, Geigy Chemical Corp, Liverpool
45 dms, Carbic Hoechst Corp, Rotterdam
82 dms, Ciba Co, Rotterdam
30 dms, H Bruckmann & Lorbacher, Bremen
6 dms, H Bruckman & Lorbacher, Hamburg
35 dms, Geigy Chemical Corp, Bremerhaven
140 dms, Geigy Chemical Corp, Hamburg
74 dms, Rotterdam
ANISE SEED—40 bgs, Max Van Pels, Alicante
ANTOMONIC ACID—4 cs, Celanese Corp of America, London
ANTIMONY—420 cs, Liverpool
ANTIMONY OXIDE—268 bgs, Antwerp
ARABIC GUM—1,223 bgs, Morningstar Paisley Inc, Port Sudan
560 bgs, Meer Corp, Port Sudan
600 bgs, Stein Hall & Co, Port Sudan
250 bgs, Chase Manhattan Bank, Port Sudan
500 bgs, Henry Heide, Port Sudan
408 bgs, Brown Bros Port Sudan
1,000 bgs, Irving Trust Co, Port Sudan
ASCORBIC ACID—24 dms, Byron Chemical Co, Kobe
BARIUM NITRATE—110 dms, Hummel Chemical Co, Bremen
BARIUM SULFATE—28 cs, Picker X-Ray Corp, London
BEESWAX—40 bgs, H H Pike & Co, Havana
20 bgs, Wm Diehl & Co, San Antonio
628 bgs, Marine Midland Trust Co, Lisbon
200 bgs, Wm Diehl & Co, Valparaiso
95 bgs, International Commodities Corp, Valparaiso
62 bgs, Koster Keunen, Casablanca
27 bgs, Tampico
28 bls, Progreso
BENZO SULFIMIDE—40 dms, D Hauser, Yokohama
BERGAMOT OIL—30 hf cs, Messina
BOIS DE ROSE OIL—12 dms, Northam Trading Co, Callao
10 dms, Polarome Manufacturing Co, Callao
5 dms, Marine Midland Trust Co, Callao
BONE—1,000 bgs, Vellemann Corp, Asuncion
754 bgs, Velemann Corp, Buenos Aires
BUTTONLAC—50 bgs, Haeuser Shellac Co, Calcutta
CADMIUM CHLORIDE, REAGENT—7 dms, J M Rogers, London
CALAMINE—50 dms, D Young, Liverpool
CALCIUM CARBONATE—1,200 bgs, Whittaker Clark & Daniels, Liverpool
800 bgs, Pluess Staufer, Antwerp
CALCIUM NITRATE—500 bgs, McKesson & Robbins Inc, Oslo
CALCIUM SILICON—294 dms, E J Arbib & Co, Marseille
CAMPHORIC ACID—4 kgs, Oceano Shipping Co, Manchester
CANANGA OIL—4 dms, Kane Import Corp, Singapore
6 cs, Ungerer & Co, Singapore
CANDELILLA WAX—188 bgs, M Argueso & Co, Tampico
188 bgs, Smith & Nichols, Tampico
375 bgs, F B Ross, Tampico
313 bgs, Tampico
CARAWAY SEED—200 bgs, Levy & Levis Co, Rotterdam
100 bgs, Hoger Corp, Rotterdam
100 bls, Meer Corp, Rotterdam
400 bgs, Rotterdam
CARBON, ACTIVATED—325 dms, London
CARNAUBA WAX—88 bgs, Chase Manhattan Bank, Salvador
CASEIN—600 bgs, F C Gerlach, Buenos Aires
1,000 bgs, Tupman Thurlow, Buenos Aires
200 bgs, F H Paul & Stein Bros, Buenos Aires
210 bgs, F H Paul & Stein Bros, Oslo
1,500 bgs, P A Dunkel, Buenos Aires
700 bgs, N Y Sancor Corp, Buenos Aires
458 bgs, Ponta Delgada
171 bgs, Angrado Heroismo
CASTOR OIL—173 tons, Baker Castor Oil Co, Bombay
565 tons, Recife
250 tons, Salvador
CEDARWOOD OIL—11 dms, Lo Curto & Funk, Mombasa
CELERY SEED—262 bgs, Otto Gerdau, Bombay
262 bgs, George Lueders & Co, Bombay
87 bgs, Levy & Levis Co, Bombay
87 bgs, Sokol & Co, Bombay
428 bgs, C M Van Sillevoldt, Bombay
170 bgs, Dodge & Olcott, Bombay
262 bgs, C Czarinkow, Bombay
262 bgs, Bombay
CETYL ALCOHOL—222 cs, Chemical Bank, Yokohama
CETYL OLEYL ALCOHOL—30 dms, A & S Corp, Nagoya
CHESTNUT EXTRACT—2,200 bgs, Barkey Importing Co, Genoa
CHLORINATED RUBBER—200 bgs, C M C Chemicals Inc, Liverpool
CINNAMON BARK OIL—1 dm, Volkart Bros, Colombo
CINNAMON LEAF OIL—4 dms, Volkart Bros, Colombo
CITRONELLA OIL—25 dms, Fritzsche Bros, Hong Kong
35 dms, George Uhe Co, Hong Kong
35 dms, Holland Colombo Trading Society, Hong Kong
50 dms, Lo Curto & Funk, Puerto Barrios
25 dms, Marine Midland Trust Co, Hong Kong
35 dms, Givaudan Corp, Keelung
CLOVE—450 bgs, Zanzibar
COBALT POWDER—4 dms, C Hardy, Havre
COBALT SULFATE—220 dms, Advance International Ltd, London
COCONUT OIL—575 tons, Pacfic Vegetable Oil Corp, Manila
600 tons, American Trust Co, Cebu
87 tons, Fallek Products Co, Rotterdam
1,352 tons, Manila
COPAL GUM—128 bgs, S Winterbourne & Co, Singapore
COPPER OXYCHLORIDE—100 bgs, Riches Nelson, Antwerp
CORIANDER OIL—17 cs, Ungerer & Co, Antwerp
200 bgs, Levy & Levis Co, Casablanca
500 bgs, Kenitra
CORN STARCH—1,500 bgs, Impex Agricultural Corp, Rijeka
2,647 bgs, Rotterdam
CORNMINT OIL—10 dms, Mitsui & Co, Santos
10 dms, Lo Curto & Funk, Santos
CREAM OF TARTAR—60 cks, Wm E Martin & Son, Rotterdam
CRESYLIC ACID—25 tons, Van Oppen & Co, Liverpool
CUMIN SEED—400 bgs, Khorramshahr
143 bgs, Istanbul
CUTTLEFISH BONE—20 cs, Actifood Inc, Marseille
49 cs, Takoradi
DAMMAR GUM—25 bgs, O G Innes Corp, London
70 bgs, S Winterbourne & Co, Singapore
DEGRAS—15 dms, Warner Schild, Genoa
20 cs, Duke Lab, Bremen
DEXTRIN—600 bgs, Morgan Guaranty Trust Co, Rotterdam
406 bgs, Stein Hall & Co, Rotterdam
330 bgs, Rotterdam
DICALCIUM PHOSFATE—2,204 bgs, Wessel Duval & Co, Antwerp
DICYANDIAMIDE—500 bgs, Hudson Shipping Co, Yokohama
DIMETHYLUREA—68 dms, Philipp Bros Chemicals, Bremen
DIVI DIVI—6 bgs, Buenaventura
DYES, COALTAR—36 dms, H Bruckmann & Lorbacher, Hamburg
31 dms, Orlex Dyes & Chemical Corp, Hamburg
EARTH COLORS—225 bgs, Naftone Inc, Bremen
3 dms, M Grumbacher, Bremen
EPHEDRINE HYDROCHLORIDE—10 dms, Burroughs Wellcome Co, London
ESPARTO WAX—22 bgs, Cornelius Wax Refining Corp, Glasgow
FENNEL SEED—187 bgs, Louis Furth, Bombay
FENUGREEK SEED—164 bgs, Casablanca
FERRIC SULFATE—50 dms, Liverpool
FISHLIVER OIL—3 dms, Arista Oil Products Corp, Yokohama
5 dms, Mitsubishi Corp, Yokohama
FISHMEAL—2,000 bgs, Marine & Animal By Products Corp, Chimbote
FORMIC ACID—47 dms, Rotterdam
FULLERS EARTH—400 bgs, L A Salomon & Bro, London
FUMARIC ACID—13 kgs, Humble Oil Co, London
GALLNUTS—50 bgs, Banta Corp, Beirut
GAMMA ACID—20 dms, Kaufman & Vinson, Kobe
GARLIC OIL—16 cs Magnus Mabee & Reynard, Kobe
5 cs, Magnus Mabee & Reynard, Yokohama
GELATIN—80 bgs, Coignet Chemical Co, Marseille
100 bgs, H Bruckmann & Lorbacher, Rotterdam
224 bgs, Corbett & Co, Marseille
640 bgs, T M Duche & Sons, Antwerp
73 dms, B Young, London
46 bbls, Antwerp
GERANIUM OIL—4 dms, A Chiris, Algiers
1 ck, A Verley & Co, Marseille
GHATTI GUM—57 bgs, Meer Corp, Bombay
GINGER—98 bgs, Fritzsche Bros, London
57 bgs, Hismoco American Co, Kingston
194 bgs, Freetown
GLUE—92 cks, Corbett & Co, Bordeaux
100 bgs, H Bruckmann & Lorbacher, Bremen
GLYOXOL—27 djns, Dr F Jonas Co, Marseille
GRAPE FRUIT OIL—17 dms, Fritzsche Bros, Lourenco Marques
GRAPHITE—60 bgs, Eagle Pencil Co, Rotterdam
2,400 bgs, Asbury Graphite Mills, Bergen
GUAIACWOOD OIL—48 cs, Asuncion
GUAR GUM—1,245 bgs, Stein Hall & Co, Bombay
650 bgs, Stein Hall & Co, Karachi
200 bgs, T M Duche & Sons, Rotterdam
800 bgs, Bombay
GYPSUM—1,200 bgs, Whittaker Clark & Daniels, Liverpool
GYPSUM, CRUDE—10,453 tons, U S Gypsum Co, Hantsport
10,383 tons, U S Gypsum Co, Little Narrows
16,332 tons, National Gypsum Co, Halifax
HALIBUTLIVER OIL—23 dms, Arista Oil Products Corp, Yokohama
HEXACHLOROETHANE—270 bgs, Chemical Manufacturing Co, Liverpool
HYDROFLUORIC ACID—20 dms, Liverpool
HYDROXYCITRONELLAL—2 dms, Marseille
IODINE, CRUDE—40 kgs, Chase Manhattan Bank, Yokohama
740 kgs, Chilean Nitrate Sales Corp, Tocopilla
192 kgs, Mitsubishi Corp, Yokohama
IRON BLUE—50 dms, Van Oppen & Co, Liverpool
IRON OXIDE—140 bgs, J Lee Smith, Manchester
JAPAN WAX—30 cs, Mitsubishi Corp, Kobe
KARAYA GUM—555 bgs, Stein Hall & Co, Bombay
122 bgs, L A Champon & Co, Bombay
66 bgs, Meer Corp, Bombay
746 bgs, Morningstar Paisley Inc, Bombay
246 bgs, Colony Import & Export Corp, Bombay
122 bgs, P A Dunkel, Bombay
124 bgs, Jacques Wolf & Co, Bombay
KOLA NUTS—200 bgs, D Steengrafe & Co, Kingston
305 bgs, Lagos
LACTOSE—20 dms, Industrial Chemical & Dye Co, Rotterdam
LAUREL LEAVES—100 bls, Leixoes
40 bls, Lisbon
LAVANDIN OIL—10 dms, A Verley & Co, Marseille
9 cks, Brown Bros, Cannes
LAVENDER FLOWERS—80 bls, S B Penick & Co, Marseille
40 bgs, Max Van Pels, Alicante
LAVENDER OIL—2 bbls, Split
LAVENDER OIL, SPIKE—20 dms, L A Champon & Co, Barcelona
LEMON OIL—24 dms, Ungerer & Co, Vera Cruz
12 cs, Messina
LEMONGRASS OIL—18 dms, Givaudan Corp, Cochin
30 dms, Maywood Chemical Works, Cochin
25 dms, Lo Curto & Funk, Puerto Barrios
62 dms, Volkart Bros, Cochin
12 dms, George Lueders & Co, Cochin
25 dms, Leonhardt & Brush, Puerto Barrios
LICORICE EXTRACT—2,500 cs, Wm E Martin & Son, Izmir
LITHARGE—184 dms, Eagle Picher Co, Tampico
LIVER POWDER—50 cs, Phillips Roxane, Rotterdam
LOCUST BEAN GUM—200 bgs, Brown Bros, Valencia
50 cks, T M Duche & Sons, Rotterdam
LOGWOOD EXTRACT—30 dms, American Dyewood Co, Kingston
LUBRICATING OIL—200 dms, Asiatic Petroleum Corp, Liverpool
MACE—28 cs, Catz American Co, Singapore
10 cs, Singapore
MAGNESITE—1,720 bgs, Cochin
MAGNESIUM CARBONATE—200 bgs, Reheis Co, Liverpool
MAGNESIUM TRISILICATE—50 dms, London
MANDARIN OIL—30 qu cs, Messina
MANGROVE BARK—1,525 bgs, Chemical Bank, Dares Salaam
MARJORAM—100 bgs, Foreign Domestic Distributors, Callao
100 bls, Louis Furth, Marseille
MELAMINE—220 bgs, Yokohama
MENTHOL—17 cs, Fritzsche Bros, Keelung
15 cs, Consumers Import Co, Keelung
65 cs, Schwabach & Co, Santos
40 cs, Lo Curto & Funk, Keelung
10 cs, Keelung
MERCURY—100 flks, Leghorn Trading Co, Leghorn
500 flks, Lo Curto & Funk, Leghorn
50 flks, National City Bank, Coquimbo
METALLIC SODIUM—20 cs, Foundry Services Inc, Liverpool
MINERAL VIOLET—7 dms, S. Doggett, Rotterdam
MINT LEAVES—27 cs, H Marmorek & Son, Rijeka
MOLASSES—555 tons, W R Grace & Co, Salaverry
MONOCHLOROACETIC ACID—160 dms, Hamburg
MONOSODIUM GLUTAMATE—400 dms, Ajinomoto Co, Yokohama
MUSTARD SEED—300 bgs, M J Golombeck, Copenhagen
MYCOSTATIN—3 dms, Olin Mathieson Chemical Corp, Antwerp
MYROBALANS—2,480 bgs, Hammond & Carpenter, Visaknapatnam
NAPHTHALENE—880 bgs, Allied Chemical Corp, Liverpool
860 bgs, J Forker, Liverpool
1,379 bgs, Witco Chemical Co, Liverpool
809 bgs, Ore & Ferro Corp, Durban
510 bgs, Antwerp
NAPHTHOL—8 dms, Wedeman & Godknecht, Bremen
8 dms, H Bruckmann & Lorbacher, Bremen
NICOTINAMIDE—140 dms, Fallek Products Co, Genoa
NUTMEG—140 bgs, Ungerer & Co, Singapore
70 bgs, Catz American Co, Singapore
40 bgs, V A Cordovi, Colombo
100 bgs, K Landes & Co, Grenada
70 bgs, Rotterdam
NUX VOMICA—123 bgs, London
OCHRE—1,120 bgs, Landers Segal Color Co, Capetown
OCOTEA CYMBARUM OIL—48 dms, Stein Hall & Co, Itajai
67 dms, L A Champon & Co, Itajai
OIL ACID—22 tons, M Michel & Co, Rotterdam
OLIVE OIL—25 dms, Old Monk Olive Oil Co, Marseille
50 dms, Naples
OPIUM—100 cs, Merck & Co, Calcutta
OPOPANAX GUM—100 bgs, National City Bank, Aden
ORIGANUM—400 bgs, Atlantic Bank of N Y, Piraeus
ORRIS ROOT—400 bgs, W F Mahneke, Casablanca
ORTHOVANILLIN—15 dms, H A Gogarty, Havre
OURICURY WAX—329 bgs, Hollander Trading Corp, Salvador
54 bgs, Bank of N Y, Salvador
OXGALL—5 dms, International Packers Ltd, Montevideo
PALM OIL—300 tons, Belawan Deli
PALMKERNEL OIL—3,133 cs, B M T Commodity Corp, Rotterdam
790 tons, Balfour Guthrie, Matadi
481 tons, Rotterdam
PAPAIN—380 cbts, S B Penick & Co, Colombo
50 cs, American Ferment Co, Colombo
136 cs, Bemo Shipping Co, Mombasa
40 cs, Mombasa
PAPRIKA—231 bgs, M J Golombeck, Hamburg
PEPPER, BLACK—70 bgs, W S Force & Co, Singapore
80 bgs, Max Van Pels, Singapore
350 bgs, Pelak Trading Co, Singapore
140 bgs, A G Dunn, Singapore
350 bgs, Ludwig Mueller, Singapore
2,086 bgs, Singapore
480 bgs, Cochin
PEPPER, RED—126 bgs, P H Petry, Mombasa
PESTICIDE—20 dms, European Chemical Co, London
PETIT GRAIN OIL—5 dms, Fritzsche Bros, Asuncion
12 dms, J M Rodrigues & Co, Asuncion
PHOSPHORUS PENTASULFIDE—200 dms, Hooker Electrochemical Co, Liverpool
PHTHALIC ANHYDRIDE—650 bgs, Southampton
PIMENTO—240 bgs, M J Golombeck, Kingston
PIMENTO LEAF OIL—4 dms, Fritzsche Bros, Kingston
3 dms, Magnus Mabee & Reynard, Kingston
POLLACKLIVER OIL—70 dms, Wilbur Ellis Co, Yokohama
75 dms, Peder Devold Oil Co, Yokohama
65 dms, Arista Oil Products Corp, Yokohama
50 dms, Chase Manhattan Bank, Yokohama
50 dms, Bank of California, Yokohama
POLLACKLIVER OIL, CONCENTRATED—2 dms, Arista Oil Products Corp, Yokohama
POLYVINYL ACETATE EMULSION—50 dms, Lloyd Associates, Bremen
PONTIANAK GUM—10 cs, Singapore
POPPYSEED—500 bgs, C M Van Sillevoldt, Izmir
100 bgs, Rotterdam
POTASSIUM CYANIDE—50 dms, D Hauser, Hamburg
10 dms, Ugine Industries, Havre
POTASSIUM METABISULFITE—120 dms, Rotterdam
PROCAIN—120 dms, Henley & Co, Bremen
PSYLLIUM SEED HUSKS—605 bgs, Parke Davis & Co, Bombay
PYRETHRUM EXTRACT—90 dms, Mombasa
PYRITES—210 cks, American Metal Climax, Leixoes
QUEBRACHO EXTRACT—1,010 bgs, Barkey Importing Co, Buenos Aires
RAPE SEED—300 bgs, S Davis Co, Rotterdam
RICE STARCH—224 bgs, Stein Hall & Co, Bremen
ROSE BUDS—80 bgs, W F Mahneke, Casablanca
ROSEMARY LEAVES—100 bls, Leixoes
ROSEMARY OIL—5 dms, L A Champon & Co, Barcelona
SAGE LEAVES—2 bls, K H Werthon, Trieste
200 bls, Split
585 bls, Dubrovnik
SAGE OIL—2 bbls, Split
SAGO FLOUR—343 bgs, Morningstar Paisley Inc, Singapore
173 bgs, Singapore
ST JOHN'S BREAD—200 bgs, W F Mahneke, Casablanca
SANTAL OIL—2 dms, Dodge & Olcott, Port Au Prince
SARSAPARILLA ROOT—26 bls, F D Keller & Son, Tampico
SAVORY LEAVES—8 bls, Van Loan & Co, Marseille
SEEDLAC—150 bgs, Haeuser Shellac Co, Bangkok
500 bgs, Mantrose Corp, Bangkok
250 bgs, C H Timm, Calcutta
750 bgs, Calcutta
SHELLAC—50 bgs, Haeuser Shellac Co, Calcutta
125 bgs, Parks Co, Calcutta
200 bgs, United Shellac Corp, Calcutta
200 bgs, Wm Zinsser & Co, Calcutta
100 bgs, Colony Import & Export Corp, Calcutta
50 bgs, Calcutta
SIENNA—17 dms, Reichard Coulston, Leghorn
SODA, CAUSTIC—126 dms, B T Chemco Inc, Gothenburg
SODIUM ALGINATE—10 dms, T M Duche & Sons, Glasgow
SODIUM BICARBONATE—500 bgs, Chemical Manufacturing Co, Liverpool
SODIUM BICHROMATE—1,200 bgs, Durban
SODIUM CHLORITE—100 dms, Mohegan International Corp, Bremen
100 dms, Wedeman & Godknecht, Bremen
SODIUM CYANIDE—200 dms, Chemical Manufacturing Co, Liverpool
750 dms, Amercan Cyanamid Co, Liverpool
353 dms, Ugine Industries, Havre
SODIUM FLORIDE—200 bgs, Interstate Universal Inc, Bremen
SODIUM LAURYL SULFATE—250 cks, Aceto Chemical Co, Liverpool
40 dms, Liverpool
SODIUM PHOSPHATE—75 cs, Milwaukee Spice Mills, Hamburg
SPEARMINT LEAVES—40 cs, Alexandria
SPERM OIL—333 tons, Arista Oil Products Corp, Glasgow
STARCH—1,400 bgs, Morningstar Paisley Inc, Rotterdam
STYRAX—25 cs, Magnus Mabee & Reynard, Izmir
SULFUR, CRUDE—4,251 tons, E I Dupont De Nemours & Co, Coatzacoalcos
TALC—686 bgs, C B Chrystal Co, Bombay
TALHA GUM—530 bgs, Port Sudan
TAPIOCA GUM—400 bgs, Stein Hall & Co, Itajai
TAPIOCA FLOUR—1,654 bgs, Manhattan Adhesives Corp, Itajai
300 bgs, American Key Products, Itajai
1,977 bgs, Poons Co, Itajai
3,000 bgs, C & W Trading Co, Itajai
290 bgs, Geismar & Co, Kohsichang
1,792 bgs, Stein Hall & Co, Kosichang
TARTARIC ACID—1,100 bgs, Leonhardt & Brush, Barcelona
1,400 bgs, Leonhardt & Brush, San Felu de Guixols
THALLIUM SULFATE—5 cs, Hudson Shipping Co, Hamburg
THYME LEAVES—16 bls, Van Loan & Co, Marseille
100 bls, K Landes & Co, Marseille
100 bls, Seeck & Kade, Marseille
TITANIUM DIOXIDE—1,101 bgs, American Firstoline Corp, Havre
1,101 bgs, Havre
1,101 bgs, Antwerp
TITANIUM DIOXIDE, ANATASE—800 bgs, Nylos Trading Co, Genoa
TOLU BALSAM—5 dms, Meer Corp, Puerto Barrios
TRAGACANTH GUM—163 bgs, Am-Iran Corp, Khorramshahr
43 bgs, Khorramshahr
TRICHLOROETHYLENE—50 dms, Chemical Manufacturing Co, Liverpool
100 dms, Chemical Sales & Service Co, Leghorn
TUNG OIL—295 tons, Bunge Corp, Buenos Aires
TURMERIC—31 bgs, Kellys America Ltd, Cochin
ULTRAMARINE BLUE—40 bgs, Whittaker Clark & Daniels, London
100 bgs, Antwerp
UREA—1,500 bgs, Genoa
VEGETABLE OIL, HYDROGENATED—1,000 cs, Bauer & Loewy Trading Co, Liverpool
VETIVER OIL—3 dms, Port Au Prince
YLANG YLANG OIL—3 cks, A Verley & Co, Marseille
ZINC CHLORIDE—84 dms, Riches Nelson, Antwerp
ZINC OXIDE—20 bgs, Roussel Corp, Marseille
1,440 bgs, Imperial Paper & Color Corp, Vera Cruz
1,000 bgs, Vera Cruz
1,200 bgs, Marseille
480 bgs, London

Los Angeles

ANTIMONY OXIDE—250 bgs, National Lead Co, Hull
ASBESTOS FIBER—9,119 bgs, Johns Manville Corp, Singapore
CASSIA—715 bls, Magna Enterprises, Djakarta
179 bls, Trinity Trading Co, Djakarta
87 bls, California Commodities Corp, Djakarta
COPRA—1,000 tons, Wells Fargo Bank, Cebu
500 tons, Wells Fargo Bank, Tobaco
FISHLIVER OIL—1 dm, Mitsubishi Corp, Yokohama
FISHMEAL—6,088 bgs, Callao
1,087 bgs, Chimbote
GYPSUM, CRUDE—16,438 tons, Kaiser Gypsum Co, San Marcos
KELPMEAL—200 bgs, J L Ohman, Stavanger
MOLASSES—9,831 tons, Pacific Molasses Co, Neuvitas
NAPHTHA—159,938 bbls, Union Oil Co, Matsyama
POTASH, CAUSTIC—27 dms, Antwerp
SESAME SEED—24 bgs, W R Grace & Co, Corinto
TAPIOCA FLOUR—2,912 bgs, Morningstar Paisley Inc, Bangkok

Philadelphia

ASBESTOS FIBER—1,500 bgs, N American Asbestos Corp, Durban
100 bgs, Rubberoid Co, Lourenco Marques
2,520 bgs, Chas Kurz & Co, Lourenco Marques
CARAWAY SEED—266 bgs, Wm G Scarlett, Copenhagen
CASEIN—100 bgs, National Casein Co, Melbourne
CRESYLIC ACID—100 dms, Concord Chemical Co, Glasgow
DIVI DIVI—348 bgs, Buenaventura
FUEL OIL—132,207 bbls, Hess Inc, Puerto La Cruz
35,969 bbls, Patterson Oil Co, Curacao
GLYCERINE—300 tons, Procter & Gamble Co, Manila
GYPSUM, CRUDE—8,349 tons, U S Gypsum Co, Hantsport
10,955 tons, National Gypsum Co, Halifax
LICORICE ROOT—14,276 bls, MacAndrews & Forbes, Basrah
MOLASSES—2,933,858 gals, Antilla
2,974,948 gals, Nuevitas
OLIVE OIL—30 dms, Seville
PEATMOSS—1,000 bls, Premier Peatmoss Corp, Gdynia
1,000 bls, New Amsterdam Import Co, Aarhus
POPPYSEED—222 bgs, Wm G Scarlett, Copenhagen
QUEBRACHO EXTRACT—385 bgs, Tanimex Corp, Buenos Aires
TALC—1,455 bgs, Whittaker Clark & Daniels, Bordeaux
TANNING EXTRACT—480 bgs, Crystal Extract Co, Fremantle
TAPIOCA FLOUR—1,949 bgs, Poons Co, Kohsichang
896 bgs, Stein Hall & Co, Bangkok
890 bgs, Woodward & Dickerson, Bangkok
ZIRCON SAND—4,000 bgs, Chemical Bank, Brisbane
4,050 bgs, Foote Mineral Co, Brisbane

San Francisco

DICALCIUM PHOSPHATE—1,102 bgs, J H Schroder, Antwerp
FISHMEAL—5,175 bgs, Marine & Animal By-Products Corp, Matarani
1,087 bgs, Marine Midland Trust Co, Matarani
3,861 bgs, Matarani
1,250 bgs, Callao
GRAPHITE—400 bgs, Pacific Graphite Co, Bremen
POTATO STARCH—20 bgs, Abinante & Nola Packing Co, Gothenburg
SESAME SEED—50 bgs, W R Grace & Co, Corinto
SULFAMIC ACID—200 bgs, Hostashem Corp, Bremen

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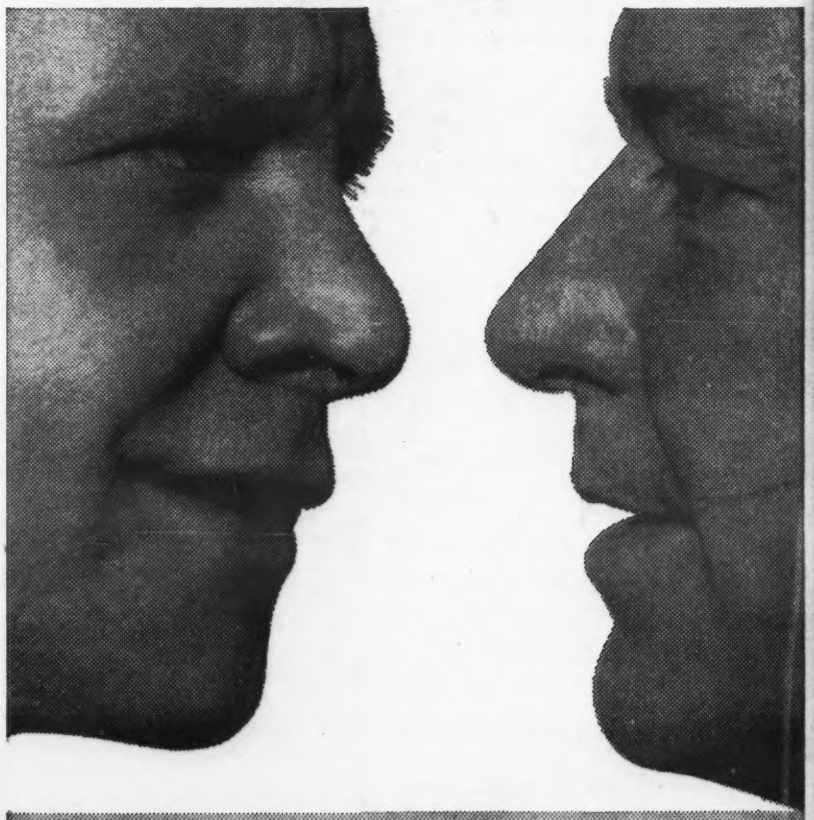

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